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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 27-91 March 6, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – 1990

(Values in Millions of U.S. Dollars)

	Dec. 1990	Nov. 1990	Average Sep.-Nov.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 49.3	$ 44.9	$ 49.7	$ 600.0	$ 488.8	22.7%
Imports	$132.4	$107.6	$135.8	$1,766.6	$1,859.1	(5.0%)
Balance	($ 83.1)	($ 62.7)	($ 86.1)	($1,166.6)	($1,370.3)	(14.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 43.0	$ 42.3	$ 36.5	$ 462.5	$ 461.0	0.3%
Imports	$ 55.7	$ 57.9	$ 49.3	$ 538.4	$ 547.5	(1.7%)
Balance	$ 12.7	($ 15.6	($ 12.8)	($ 75.9)	($ 86.5)	(12.3%)
MACHINE TOOL TOTAL						
Exports	$ 92.3	$ 87.2	$ 86.2	$1,062.5	$ 949.8	11.9%
Imports	$188.1	$165.5	$185.2	$2,305.1	$2,406.6	(4.2%)
Balance	($ 95.8)	($ 78.3)	($ 99.0)	($1,242.6)	($1,456.8)	(14.7%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 32.1	$ 28.4	$ 28.0	$ 347.1	$ 248.2	39.8%
Imports	$ 79.2	$ 73.6	$ 93.9	$1,194.4	$1,301.0	(8.2%)
Balance	($ 47.1)	($ 45.2)	($ 65.9)	($ 847.3)	($1,052.8)	(19.5%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$141.4	$153.2	$154.3	$1,812.4	NA	NA
Imports	$178.9	$153.8	$153.1	$1,963.3	NA	NA
Balance	($ 37.5)	($ 0.6)	$ 1.2	($ 150.9)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool exports in 1990 of $1.1 billion were the highest annual total ever and the seventh straight annual increase. The export total in December of $92.3 million was the highest monthly total since March 1990.

- U.S. machine tool imports in 1990 were $2.3 billion, down 4% from the record total in 1989.

- The U.S. trade deficit in machine tools fell 15% in 1990 over 1989 to $1.2 billion.

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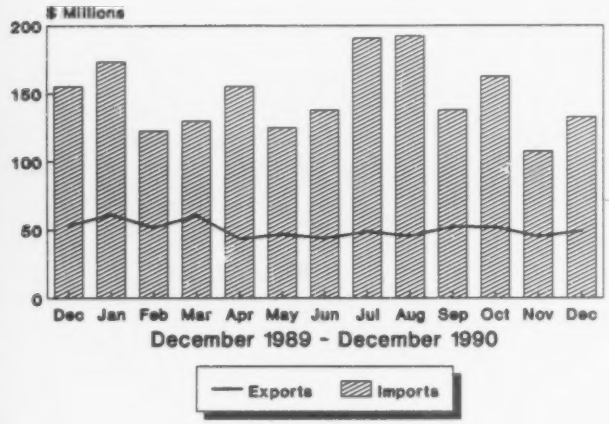
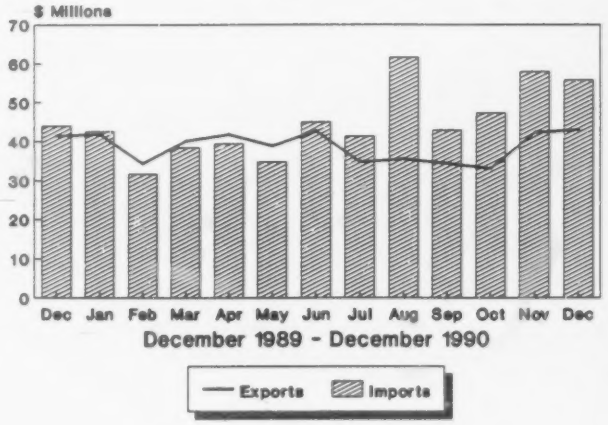
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

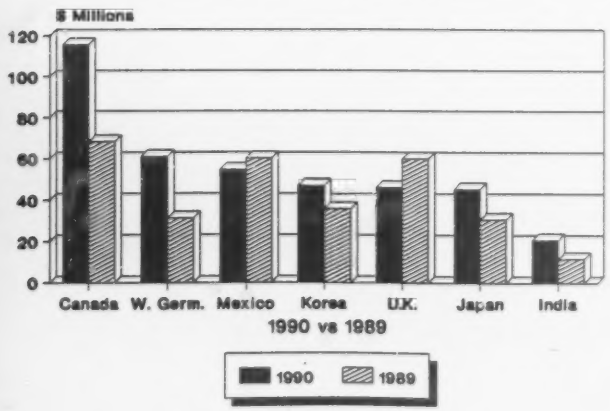
Exports

• Exports of metal cutting machines were $600.0 million in 1990, 23% higher than 1989 and 35% higher than 1988. Metal cutting exports have now risen every year since 1984.

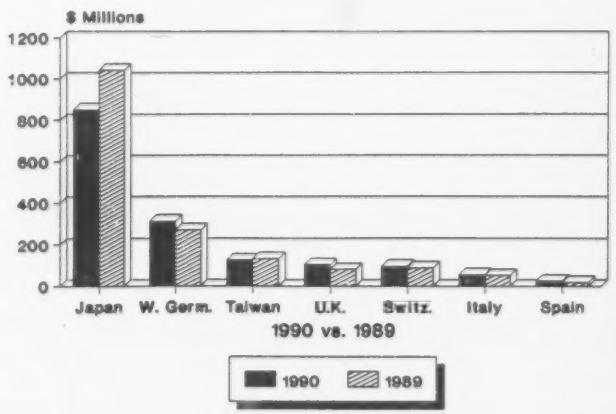
• Exports of grinding machines totalled $130.6 million in 1990, up from $128.4 million in 1989. Exports of machining centers reached $56.6 million in 1990, up from $45.7 million in 1989.

• Canada was the top export market in 1990 at $115.6 million, up 69% over 1989. Exports to Germany of $61.2 million were up 96% over 1989. Exports to Germany were led by station type machines ($30.0 million) and grinding machines ($9.5 million).

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• Metal cutting machine tool imports in 1990 totalled $1.8 billion, down 5% from last year's record high.

• Japan was the top import source at $852.6 million, down 18% from 1989. The rest of the top five: Germany ($313.0 million, up 15%), Taiwan ($126.2 million, down 4%), the United Kingdom ($105.0 million, up 30%), and Switzerland ($95.4 million, up 10%).

• Imports of grinding machines totalled $300.1 million in 1990, up from $273.6 million in 1989. Imports in 1990 of machining centers ($399.9 million) and NC horizontal lathes ($289.6) were down 3% and 23%, respectively, from 1989.

METAL FORMING MACHINE TOOLS

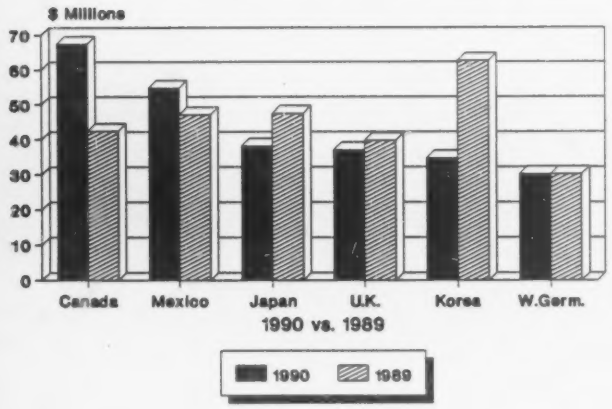
Exports

• Exports of metal forming machines in 1990 were $462.5 million, up slightly from 1989. The top export markets: Canada ($67.4 million), Mexico ($54.7 million), Japan ($38.2 million), the United Kingdom ($37.1 million) and South Korea ($34.7 million).

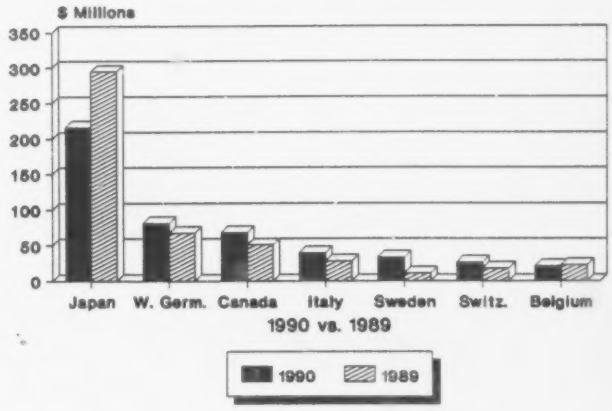
• Exports of bending and forming machines were $73.7 million in 1990, up from $46.7 million in 1989. Exports of forging machines totalled $51.2 million, up 25% from 1989.

• Exports of presses in 1990 were $99.2 million. The top export markets: Mexico ($14.0 million), Korea ($13.0 million), Canada ($8.3 million) and Germany ($7.8 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Imports in 1990 of metal forming machines totalled $538.4 million, down from $547.5 million in 1989. The major sources: Japan ($215.9 million), Germany ($81.0 million), Canada ($68.4 million) and Italy ($39.5 million).

• Imports of presses were $124.0 million, down from $142.8 million in 1989. The major sources of presses in 1990: Japan ($58.8 million), Canada ($18.3 million), Sweden ($16.5 million) and Germany ($13.3 million).

• Imports of punching and shearing machines were $76.5 million, up from $75.3 million in 1989. The major sources of punching and shearing machines in 1990: Japan ($30.0 million), Germany ($17.0 million), Switzerland ($5.1 million) and Canada ($4.1 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of machine tool parts and accessories totalled $722.1 million, up from $714.3 million in 1989. The major export markets for parts and accessories in 1990: Canada ($159.0 million), the United Kingdom ($75.6 million), Germany ($70.5 million) and Japan ($66.1 million).

• Exports of injection molding machines for processing thermoplastics were $54.1 million in 1990, up from $47.0 million in 1989. Exports of extruders for processing thermoplastics totalled $41.5 million in 1990, up from $35.6 million in 1989.

Imports

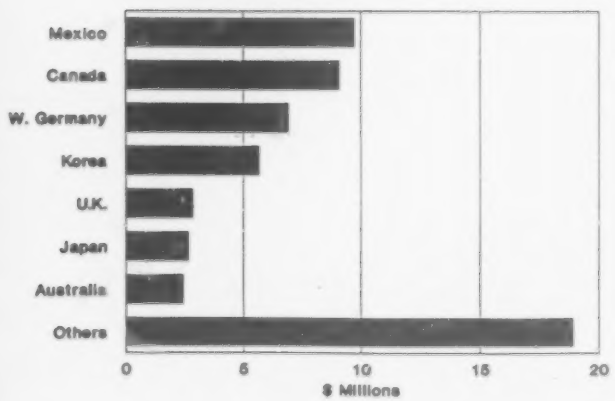
• Imports of injection molding machines for processing thermoplastics totalled $223.6 million in 1990, down from $268.0 million in 1989. The major import sources: Japan ($89.8 million), Canada ($45.7 million) and Germany ($42.8 million).

• Imports of blow molding machines totalled $52.2 million in 1990, up from $43.1 million in 1989. The major sources: France ($19.6 million), Germany ($15.5 million) and Japan ($9.8 million).

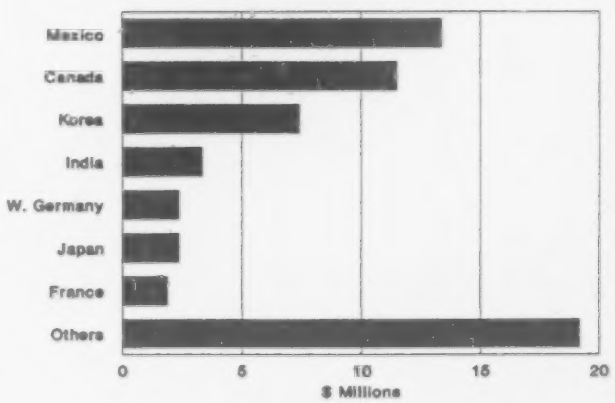
MONTHLY FOCUS

U.S. exports of used or rebuilt machine tools reached $119.7 million in 1990, up from $117.6 million in 1989. Of the total in 1990, $58.2 million were metal cutting machines and $61.5 million were metal forming machines. The charts below detail U.S. exports of used or rebuilt machine tools in 1990 by country of destination. A separate page details exports of used or rebuilt machines by type of machine. Mexico is the leading U.S. export market for used or rebuilt machines, followed by Canada and South Korea.

U.S. Exports of Used or Rebuilt Metal Cutting Machines 1990



U.S. Exports of Used or Rebuilt Metal Forming Machines 1990



U.S. Exports of Used or Rebuilt Machine Tools 1990
(Values in Thousands of U.S. Dollars)

		Units	Value
MACHINE TOOL TOTAL		**8,249**	**119,669**
METAL CUTTING TOTAL		**5,007**	**58,208**
8457100005	Machining centers, used or rebuilt	314	5,710
8458110005	Horizontal lathes, used or rebuilt, NC	450	4,067
190010	Horizontal lathes, used or rebuilt, non-NC	719	3,321
911040	Vertical turret lathes, used or rebuilt, NC	109	1,089
915040	Vertical lathes, excl. VTL's, used or rebuilt, NC	98	910
991010	Vertical lathes, excluding VTL's, used or rebuilt, non-NC	42	1,008
995030	Vertical lathes, excl. VTL's, used or rebuilt, non-NC	57	713
8459210040	Other drilling machines, used or rebuilt, NC	155	910
290010	Other drilling machines, , used or rebuilt, non-NC	170	974
310005	Boring-milling machines, used or rebuilt, NC	38	841
390010	Boring-milling machines, n.e.c., used or rebuilt, non-NC	43	762
400010	Boring machines, used or rebuilt	113	2,349
510040	Milling machines, knee type, used or rebuilt, NC	10	1,057
590010	Milling machines, knee type, used or rebuilt, non-NC	87	473
610040	Milling machines, excluding knee type, used or rebuilt, NC	40	2,793
690010	Milling machines, excl. knee type, used or rebuilt, non-NC	140	5,059
700040	Threading or tapping machines, used or rebuilt	169	1,665
8460110040	Flat surface grinding machines, used or rebuilt, NC	325	1,421
190005	Flat surface grinding machines, used or rebuilt, non-NC	296	1,390
210040	Grind. mach., accur. 0.01mm, n.e.c., used or rebuilt, NC	128	1,926
290005	Grind. mach., accur. 0.01mm, n.e.c., used or rebuilt, non-NC	319	3,224
310040	Sharpen. mach. (tool or cutter grind.), used or rebuilt, NC	42	172
390010	Sharp. mach. (tool or cutter gr.), used or rebuilt, non-NC	67	198
400010	Honing or lapping machines, used or rebuilt	184	1,409
900010	Grind., honing, polish. mach. n.e.c., used or rebuilt	200	1,593
8461100020	Planing machines, used or rebuilt	66	1,298
200030	Shaping or slotting machines, used or rebuilt	26	264
300020	Broaching machines, used or rebuilt	15	239
401010	Gear cutting machines, used or rebuilt	64	3,362
405020	Gear grinding or finishing machines, used or rebuilt	111	1,625
500010	Sawing or cutting-off machines, used or rebuilt	237	2,856
900010	Metal cutting machine tools n.e.c., used or rebuilt	173	5,531
METAL FORMING TOTAL		**3,242**	**61,461**
8462100010	Forging or die stamping machines, used or rebuilt	351	8,900
210040	Bend., fold., straight. or flat. mach., used or rebuilt, NC	127	4,319
290010	Bend., fold., straight. mach., used or rebuilt, non-NC	462	7,370
310040	Shearing machines, used or rebuilt	51	2,988
390010	Shearing machines, used or rebuilt, non-NC	111	2,224
410040	Punch. or notch. mach., incl comb. p&sh, used or rebuilt, NC	108	3,340
490010	Punch. or notch., incl. comb.p&sh, used or rebuilt, non-NC	355	8,993
910030	Hydraulic presses, used or rebuilt	412	5,448
990010	Presses, excl. hydraulic, used or rebuilt	356	4,699
8463100040	Draw benches for bars, tubes, etc., used or rebuilt	87	2,390
200040	Thread rolling machines, used or rebuilt	22	315
300040	Machines for working wire, used or rebuilt	572	4,716
900040	Metal forming machine tools n.e.c., used or rebuilt	228	5,758

n.e.c. = not elsewhere classified

Source: U.S. Bureau of the Census

U.S. Exports of Machine Tools 1990*
By Type of Machine and Destination
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL BORING MACHINES	**154**	**$15,808**
Canada	44	6,029
Brazil	8	1,850
Korea	7	1,751
Italy	5	1,375
Israel	1	1,274
Mexico	32	1,069
U.K.	4	633
Australia	11	400
Venezuela	5	393
West Germany	7	368
Other Countries	30	666
TOTAL DRILLING MACHINES	**974**	**17,998**
Canada	402	6,500
Mexico	217	2,815
U.K.	25	1,355
West Germany	19	1,209
Korea	40	630
China	10	628
Chile	2	623
Taiwan	8	510
Sweden	8	386
Israel	3	385
Other Countries	240	2,957
TOTAL GEAR CUTTING	**256**	**58,681**
Korea	66	14,788
Japan	34	10,536
Canada	28	4,762
West Germany	24	4,747
USSR	14	4,615
Italy	12	4,438
Brazil	9	3,628
India	4	1,845
Spain	2	1,425
Australia	2	1,153
Other Countries	61	6,944
TOTAL GRINDING MACHINES	**4,026**	**130,596**
Canada	751	29,796
Japan	467	14,397
Mexico	342	9,896
West Germany	404	9,477
China	101	7,848
Korea	469	7,255
India	94	6,346
Brazil	132	5,204
U.K.	147	5,167
Italy	151	4,705
Australia	56	4,010
USSR	14	3,208
Switzerland	105	2,647
France	66	2,438
Netherlands	44	2,181
Taiwan	86	2,166
Singapore	49	1,834
Yugoslavia	8	1,251
Portugal	4	1,240
Spain	47	953
Poland	14	938
South Africa	57	715
Israel	49	666
Hong Kong	19	664
Sweden	17	630
Other Countries	333	4,964

	Units	Value
TOTAL NC HORIZ. LATHES	**409**	**$43,897**
Canada	74	13,349
U.K.	126	9,069
Belgium	83	7,301
Japan	35	2,299
Australia	8	2,230
France	19	1,752
Mexico	13	1,626
China	5	831
West Germany	10	802
Brazil	3	801
Other Countries	33	3,837
TOTAL NC VERTICAL LATHES	**72**	**13,150**
India	20	6,687
Mexico	31	2,633
Canada	5	1,905
Italy	2	830
Brazil	8	470
U.K.	1	188
Japan	2	128
Venezuela	1	110
Egypt	1	108
Taiwan	1	90
TOTAL NON-NC LATHES	**790**	**16,880**
Mexico	218	3,894
Canada	136	3,619
U.K.	140	2,623
Venezuela	7	1,576
Japan	39	796
Italy	31	796
Korea	21	771
West Germany	14	480
Australia	61	316
Brazil	6	286
Other Countries	117	1,723
TOTAL MILLING MACHINES	**443**	**34,996**
Korea	13	5,403
Canada	80	3,977
Taiwan	5	3,925
Mexico	141	3,848
Australia	26	3,478
China	15	2,191
U.K.	10	1,592
Singapore	10	1,578
Brazil	7	859
Japan	19	827
Other Countries	117	7,318
TOTAL STATION TYPE	**82**	**51,075**
West Germany	21	27,992
U.K.	6	9,863
Mexico	26	4,263
Turkey	4	3,480
Canada	2	1,860
Korea	7	760
Spain	2	663
Brazil	5	572
Japan	1	556
Taiwan	1	245
Other Countries	7	821

U.S. Exports of Machine Tools 1990* (continued)

	Units	Value
TOTAL MACHINING CENTERS	**388**	**56,616**
Canada	99	17,144
Belgium	62	9,792
China	34	6,297
Korea	37	5,161
Mexico	55	4,191
U.K.	28	3,951
West Germany	13	2,588
Japan	15	1,612
Italy	4	988
Sweden	2	514
Other Countries	39	4,378
TOTAL METAL CUT. N.E.C.	**4,077**	**78,434**
Canada	778	14,037
Japan	276	9,860
U.K.	302	6,787
Mexico	428	6,321
West Germany	182	4,799
Korea	139	3,434
Singapore	149	2,735
Italy	89	2,255
Taiwan	112	2,066
Venezuela	223	2,017
India	21	1,944
Brazil	62	1,883
Other Countries	1,316	20,296
TOTAL PUNCH. & SHEARING	**1,569**	**65,371**
Canada	393	12,570
U.K.	110	7,176
Mexico	210	6,701
Netherlands	60	5,790
France	52	4,269
China	62	4,068
Japan	112	3,768
West Germany	46	2,720
Korea	22	1,776
Brazil	85	1,495
Taiwan	25	1,253
Italy	38	1,198
Spain	4	1,148
Argentina	4	1,069
Singapore	26	1,038
Other Countries	320	9,332
TOTAL BENDING & FORMING	**1,859**	**73,708**
Canada	553	18,336
Mexico	225	8,919
Indonesia	206	4,976
Philippines	65	4,789
Korea	90	3,618
Algeria	1	3,050
China	19	2,948
West Germany	74	2,559
Japan	67	2,550
Australia	46	2,442
Thailand	15	1,964
Taiwan	44	1,835
France	54	1,740
U.K.	48	1,675
Singapore	29	1,249
Brazil	37	1,218
India	12	1,021
Other Countries	274	8,819

	Units	Value
TOTAL PRESSES	**2,032**	**99,165**
Mexico	784	14,010
Korea	89	12,988
Canada	200	8,278
West Germany	75	7,812
U.K.	116	7,649
Taiwan	104	6,908
Japan	108	6,561
France	38	4,134
China	51	3,465
Italy	30	2,394
Thailand	15	1,942
Brazil	44	1,820
Saudi Arabia	13	1,682
Sweden	18	1,653
Greece	3	1,567
Iraq	14	1,530
Australia	24	1,394
Switzerland	10	1,309
Other Countries	296	11,978
TOTAL FORGING MACHINES	**360**	**51,210**
Japan	53	16,576
U.K.	78	6,926
West Germany	31	4,537
Canada	35	4,173
Korea	41	3,094
France	4	2,357
Taiwan	9	1,810
Mexico	27	1,629
Chile	3	1,502
Spain	12	1,399
Brazil	10	1,395
Italy	5	1,291
Poland	1	1,060
Other Countries	51	3,461
TOTAL METAL FORMING N.E.C.	**3,053**	**100,563**
U.K.	396	11,214
Canada	318	10,626
West Germany	299	9,438
Mexico	390	7,360
Japan	135	5,694
Korea	125	5,607
France	104	4,737
China	67	4,565
Iraq	46	4,366
Taiwan	46	4,106
Italy	78	3,508
Brazil	109	3,487
Greece	25	2,925
Malaysia	56	2,874
Australia	75	2,215
Spain	71	1,699
Netherlands	77	1,671
India	107	1,419
Singapore	43	1,157
Portugal	44	1,146
Thailand	57	1,120
Saudi Arabia	15	1,003
Philippines	21	724
Sweden	29	697
Venezuela	18	681
Austria	23	560
South Africa	13	442
Hong Kong	21	429
Other Countries	245	5,093

*Includes new machines valued over $2,500 only
n.e.c. - not elsewhere classified

Source: U.S. Bureau of the Census

U.S. Imports of Machine Tools 1990*
By Type of Machine and Country of Origin
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL BORING MACHINES	**662**	**$44,547**
West Germany	138	13,379
Japan	35	7,675
Italy	176	6,493
U.K.	17	4,681
Switzerland	10	2,951
France	87	2,607
Canada	64	1,561
Spain	9	1,288
Yugoslavia	14	1,016
Taiwan	38	702
Other Countries	74	2,194
TOTAL DRILLING MACHINES	**1,442**	**43,701**
Japan	385	22,087
France	26	4,991
West Germany	80	4,107
Italy	29	2,629
Spain	255	2,236
Canada	20	1,321
Switzerland	18	1,054
Taiwan	170	964
Brazil	53	912
U.K.	7	807
Other Countries	399	2,593
TOTAL GEAR CUTTING	**526**	**56,795**
West Germany	239	38,220
Switzerland	103	8,939
Japan	85	5,388
Netherlands	5	1,096
U.K.	38	1,022
East Germany	20	1,021
Italy	5	381
Brazil	1	172
China	12	153
France	1	129
Other Countries	17	274
TOTAL GRINDING MACHINES	**8,449**	**300,119**
Japan	1,449	115,319
West Germany	1,564	79,788
Switzerland	382	24,669
U.K.	670	19,666
Taiwan	2,341	15,399
Italy	300	14,133
Sweden	68	9,195
Singapore	419	5,317
Spain	39	3,813
Canada	366	3,009
China	214	1,627
Yugoslavia	187	1,556
Netherlands	37	1,399
Australia	43	1,391
Denmark	137	902
France	70	699
India	39	507
Other Countries	124	1,730

	Units	Value
TOTAL NC HORIZ. LATHES	**2,941**	**289,649**
Japan	2,386	238,264
West Germany	66	17,767
Taiwan	142	7,839
Austria	126	6,429
U.K.	93	6,155
France	33	3,485
Italy	6	2,738
Switzerland	13	2,676
Korea	44	2,617
Hungary	19	726
Other Countries	13	953
TOTAL NC VERT. LATHES	**175**	**27,887**
Japan	89	17,463
France	17	2,374
Italy	8	2,124
Switzerland	20	1,532
Austria	16	1,208
West Germany	4	1,110
Sweden	2	782
Korea	5	578
Canada	6	412
Taiwan	4	203
Other Countries	4	100
TOTAL NON-NC LATHES	**8,388**	**118,630**
West Germany	403	16,668
Japan	157	15,693
Switzerland	97	14,555
Taiwan	1,594	12,492
U.K.	662	11,625
Brazil	1,786	11,122
China	1,779	9,047
Korea	211	6,080
Poland	320	4,934
Yugoslavia	327	3,899
Singapore	308	3,888
France	48	1,899
Spain	124	1,639
Canada	118	1,161
India	89	938
Italy	33	842
Austria	194	794
Other Countries	138	1354
TOTAL MILLING MACHINES	**5,312**	**82,032**
Japan	166	17,426
Taiwan	1,922	13,480
Spain	1,571	12,709
West Germany	295	11,140
Italy	66	8,264
U.K.	217	6,193
China	830	3,855
Switzerland	35	2,354
Canada	13	1,644
Sweden	13	1,117
Other Countries	184	3,850

U.S. Imports of Machine Tools 1990* (continued)
By Type of Machine and Country of Origin
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL MACHINING CENTERS	**3,021**	**399,902**
Japan	1,767	255,942
West Germany	209	71,296
U.K.	438	27,447
Taiwan	158	13,575
Singapore	151	8,354
Switzerland	8	3,775
Korea	58	3,280
Italy	29	3,148
Austria	27	2,613
Israel	58	2,577
Turkey	52	1,962
France	13	1,615
Sweden	4	1,314
Canada	13	1,166
Other Countries	36	1,838
TOTAL STATION TYPE	**172**	**82,841**
Japan	43	40,044
West Germany	41	23,167
Italy	20	5,556
Canada	11	4,788
Switzerland	24	4,381
Korea	26	2,896
Spain	1	1,413
U.K.	6	596
TOTAL METAL CUT. N.E.C.	**4,795**	**194,401**
Japan	1,436	97,818
West Germany	565	27,383
Switzerland	461	26,712
U.K.	228	16,075
Canada	339	4,531
France	115	3,638
Taiwan	409	3,591
Thailand	84	3,244
Italy	294	2,073
Austria	123	1,880
Netherlands	65	1,863
Denmark	54	1,093
Other Countries	622	4,500
TOTAL PUNCH. & SHEARING	**1,643**	**76,484**
Japan	330	29,959
West Germany	354	16,955
Switzerland	40	5,096
Canada	114	4,123
Belgium	138	4,103
Finland	16	3,343
Sweden	30	3,217
U.K.	199	2,694
Spain	186	2,412
Italy	103	2,286
France	5	482
Taiwan	39	479
Other Countries	89	1,335

	Units	Value
TOTAL BENDING & FORMING	**2,169**	**93,972**
Japan	441	23,721
Canada	603	21,287
West Germany	246	14,603
Sweden	128	11,156
U.K.	62	4,991
Italy	176	4,794
Belgium	71	3,189
Switzerland	33	2,306
France	78	1,901
New Zealand	3	1,375
Other Countries	328	4,649
TOTAL PRESSES	**3,527**	**124,008**
Japan	409	58,777
Canada	353	18,304
Sweden	69	16,468
West Germany	148	13,298
U.K.	152	4,815
Taiwan	1,261	3,861
Switzerland	91	2,862
Italy	170	2,278
Belgium	28	1,661
China	702	364
Other Countries	144	1320
TOTAL FORGING MACHINES	**988**	**64,475**
Japan	322	37,071
West Germany	118	8,216
Canada	162	4,381
Italy	48	4,167
Switzerland	19	3,507
Yugoslavia	34	2,140
U.K.	82	1,974
Belgium	1	1,273
Korea	14	470
Sweden	21	310
Other Countries	167	966
TOTAL METAL FORM. N.E.C.	**2,801**	**148,435**
Japan	1,099	60,228
West Germany	410	22,841
Italy	265	21,653
Canada	270	15,574
Switzerland	200	11,015
Belgium	177	8,743
U.K.	137	1,985
Spain	28	1,579
Taiwan	58	1,408
France	48	736
Sweden	17	640
Other Countries	92	2,033

*Includes new machines valued over $2,500 only
n.e.c. - not elsewhere classified

Source: U.S. Bureau of the Census

1990 EXPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 7,652,871	$ 6,824,218	12.14%	$115,565,907	$68,368,987	69.03%
West Germany	10,923,316	6,674,612	63.65	61,170,623	31,271,252	95.61
Mexico	4,851,748	3,150,475	54.00	54,628,588	60,249,643	-9.33
Korea	3,931,153	1,809,963	117.20	47,156,699	35,951,389	31.17
U.K.	3,139,208	3,851,180	-18.49	46,248,926	60,150,561	-23.11
Japan	2,419,240	6,389,031	-62.13	45,475,976	30,662,254	48.31
India	1,263,434	388,804	224.95	20,870,750	11,604,131	79.86
China	1,345,031	1,531,017	-12.15	20,536,729	29,050,641	-29.31
Belgium	1,516,194	739,907	104.92	20,115,392	7,625,552	163.79
Italy	1,942,326	1,727,507	12.44	19,031,887	14,764,203	28.91
Brazil	1,967,482	1,719,549	14.42	17,567,597	11,815,123	48.69
Australia	605,102	927,950	-34.79	15,732,098	11,154,135	41.04
Taiwan	352,464	785,165	-55.11	11,266,988	9,635,915	16.93
France	425,252	367,338	15.77	8,892,338	11,814,394	-24.73
Singapore	559,322	475,378	17.66	8,698,335	7,885,332	10.31
USSR	48,566	0	NA	7,910,069	20,924,509	-62.20
Venezuela	382,714	387,275	-1.18	7,232,310	5,531,090	30.76
Netherlands	188,400	278,855	-32.44	6,167,757	4,598,127	34.14
Spain	264,729	151,654	74.56	5,977,411	3,156,013	89.40
Switzerland	473,094	488,318	-3.12	5,727,837	4,005,926	42.98
Malaysia	153,842	55,880	175.31	2,487,036	999,925	148.72
Thailand	98,392	125,312	-21.48	2,271,462	2,635,100	-13.80
Austria	242,391	18,204	1,231.53	505,208	1,274,483	-60.36
Indonesia	98,045	39,890	145.79	443,344	4,154,910	-89.33

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 4,286,217	$ 4,684,944	-8.51%	$67,404,047	$42,395,988	58.99%
Mexico	4,921,040	3,698,221	33.07	54,694,307	47,026,289	16.31
Japan	5,585,156	2,385,961	134.08	38,197,786	47,479,555	-19.55
U.K.	1,959,190	3,753,115	-47.80	37,118,351	39,703,866	-6.51
Korea	1,662,738	4,017,788	-58.62	34,687,862	62,609,518	-44.60
West Germany	4,242,836	3,021,986	40.40	30,150,534	30,224,894	-0.25
France	1,115,918	1,860,493	-40.02	19,409,176	10,635,544	82.49
Taiwan	129,660	3,187,665	-95.93	16,981,361	22,572,731	-24.77
China	57,692	4,240,624	-98.64	16,731,782	11,699,617	43.01
Brazil	952,474	3,262,226	-70.80	10,186,175	9,365,132	8.77
Netherlands	957,957	1,393,026	-31.23	9,773,883	6,912,616	41.39
Italy	978,735	374,021	161.68	9,212,424	9,856,330	-6.53
Australia	1,230,709	146,570	739.67	7,408,897	7,093,745	4.44
Indonesia	183,753	168,030	9.36	6,924,490	234,046	2,858.60
India	147,137	510,118	-71.16	6,714,720	8,918,760	-24.71
Singapore	1,062,654	232,197	357.65	6,617,872	8,193,420	-19.23
Thailand	2,003,492	164,449	1,118.31	6,290,394	3,896,330	61.44
Spain	282,191	65,450	331.16	5,843,202	4,264,711	37.01
Malaysia	137,093	117,205	16.97	4,634,830	1,622,927	185.58
Switzerland	955,425	62,522	1,428.14	3,066,484	1,545,762	98.38
Belgium	158,587	22,465	605.93	2,757,980	4,787,224	-42.39
Venezuela	532,467	459,249	15.94	2,543,373	8,427,204	-69.82
Austria	44,031	118,758	-62.92	2,472,007	815,189	203.24
USSR	0	0	NA	732,665	976,510	-24.97

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 11,939,088	$ 11,509,162	3.74%	$182,969,954	$110,764,975	65.19%
Mexico	9,772,788	6,848,696	42.70	109,322,895	107,275,932	1.91
West Germany	15,166,152	9,696,598	56.41	91,321,157	61,496,146	48.50
Japan	8,004,396	8,774,992	-8.78	83,673,762	78,141,809	7.08
U.K.	5,098,398	7,604,295	-32.95	83,367,277	99,854,427	-16.51
Korea	5,593,891	5,827,751	-4.01	81,844,561	98,560,907	-16.96
China	1,402,723	5,771,641	-75.70	37,268,511	40,750,258	-8.54
France	1,541,170	2,227,831	-30.82	28,301,514	22,449,938	26.06
Taiwan	482,124	3,972,830	-87.86	28,248,349	32,208,646	-12.30
Italy	2,921,061	2,101,528	39.00	28,244,311	24,620,533	14.72
Brazil	2,919,956	4,981,775	-41.39	27,753,772	21,180,255	31.04
India	1,410,571	898,922	56.92	27,585,470	20,522,891	34.41
Australia	1,835,811	1,074,520	70.85	23,140,995	18,247,880	26.81
Belgium	1,674,781	762,372	119.68	22,873,372	12,412,776	84.27
Netherlands	1,146,357	1,671,881	-31.43	15,941,640	11,510,743	38.49
Singapore	1,621,976	707,575	129.23	15,316,207	16,078,752	-4.74
Spain	546,920	217,104	151.92	11,820,613	7,420,724	59.29
Venezuela	915,181	846,524	8.11	9,775,683	13,958,294	-29.97
Switzerland	1,428,519	550,840	159.33	8,794,321	5,551,688	58.41
USSR	48,566	0	NA	8,642,734	21,901,019	-60.54
Thailand	2,101,884	289,761	625.39	8,561,856	6,531,430	31.09
Indonesia	281,798	207,920	35.53	7,367,834	4,388,956	67.87
Malaysia	290,935	173,085	68.09	7,121,866	2,622,852	171.53
Austria	286,422	136,962	109.13	2,977,215	2,089,672	42.47

1990 IMPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$57,201,645	$54,217,386	5.50%	$ 852,567,316	$1,042,629,826	-18.23%
West Germany	25,911,876	11,750,266	120.52	313,039,506	271,243,476	15.41
Taiwan	9,290,443	7,982,282	16.39	126,215,640	132,119,795	-4.47
U.K.	9,245,378	7,550,073	22.45	104,992,789	80,672,504	30.15
Switzerland	11,168,038	8,874,600	25.84	95,371,153	86,971,215	9.66
Italy	4,211,825	1,207,665	248.76	55,015,819	52,075,831	5.65
Spain	1,236,388	2,155,630	-42.64	25,534,883	19,536,291	30.70
France	1,385,578	1,052,004	31.71	23,971,635	21,967,785	9.12
Canada	1,575,908	1,208,212	30.43	21,521,942	20,823,626	3.35
Singapore	957,092	1,416,334	-32.42	18,676,922	17,897,826	4.35
Korea	1,056,552	1,056,728	-0.02	18,129,055	27,662,004	-34.46
Sweden	813,101	1,688,656	-51.85	16,732,692	13,638,837	22.68
Brazil	427,190	339,618	25.79	12,703,745	7,416,472	71.29
Belgium	15,138	11,594	30.57	1,685,407	5,492,144	-69.31

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$25,029,639	$27,258,114	-8.18%	$ 215,936,189	$ 294,529,172	-26.68%
West Germany	8,992,753	10,000,155	-10.07	81,024,617	67,484,629	20.06
Canada	5,708,660	8,181,981	-30.23	68,392,893	50,648,709	35.03
Italy	3,907,608	3,035,179	28.74	39,547,317	27,818,260	42.16
Sweden	1,448,440	1,928,016	-24.87	32,939,256	10,878,900	202.78
Switzerland	2,801,632	2,362,402	18.59	25,925,009	17,506,339	48.09
Belgium	749,165	499,046	50.12	20,764,178	22,676,544	-8.43
U.K.	3,752,869	1,721,034	118.06	18,185,562	16,792,646	8.29
Taiwan	508,435	237,720	113.88	8,914,627	9,355,056	-4.71
Spain	374,197	452,025	-17.22	4,355,372	3,093,689	40.78
France	282,990	144,674	95.61	3,666,728	1,796,023	104.16
Korea	104,969	122,809	-14.53	743,516	634,683	17.15
Singapore	311,286	42,065	640.01	485,931	862,449	-43.66
Brazil	2,500	0	NA	204,906	4,520,020	-95.47

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$82,231,284	$81,475,500	0.93%	$1,068,503,505	$1,337,158,998	-20.09%
West Germany	34,904,629	21,750,421	60.48	394,064,123	338,728,105	16.34
Taiwan	9,798,878	8,220,002	19.21	135,130,267	141,474,851	-4.48
U.K.	12,998,247	9,271,107	40.20	123,178,351	97,465,150	26.38
Switzerland	13,969,670	11,237,002	24.32	121,296,162	104,477,554	16.10
Italy	8,119,433	4,242,844	91.37	94,563,136	79,894,091	18.36
Canada	7,284,568	9,390,193	-22.42	89,914,835	71,472,335	25.80
Sweden	2,261,541	3,616,672	-37.47	49,671,948	24,517,737	102.60
Spain	1,610,585	2,607,655	-38.24	29,890,255	22,629,980	32.08
France	1,668,568	1,196,678	39.43	27,638,363	23,763,808	16.30
Belgium	764,303	510,640	49.68	22,449,585	28,168,688	-20.30
Singapore	1,268,378	1,458,399	-13.03	19,162,853	18,760,275	2.15
Korea	1,161,521	1,179,537	-1.53	18,872,571	28,296,687	-33.30
Brazil	429,690	339,618	26.52	12,908,651	11,936,492	8.14

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		NOVEMBER 1990		DECEMBER 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	6,399	11,915,072	4,220	9,811,078	5,617	9,821,987
Boring Machines	13	892,848	12	613,537	5	453,080	7	370,692
Drilling Machines	72	2,247,262	60	937,232	59	1,220,482	44	929,408
Gear Cutting Machines	16	8,205,773	33	4,217,786	24	4,326,960	24	6,435,136
Grinding Machines	412	8,753,533	346	10,933,219	399	10,473,970	391	11,084,336
Horizontal Lathes NC	29	3,059,742	25	2,408,221	26	2,776,395	29	3,450,520
Vertical Lathes NC	5	2,322,630	9	1,621,356	2	287,836	8	1,097,280
Lathes Non-NC	51	1,033,985	61	1,218,831	70	1,500,069	89	1,217,150
Milling Machines	38	5,262,002	51	2,190,381	21	1,976,806	37	987,344
Machining Centers	13	2,443,148	52	4,679,669	25	3,961,612	21	3,371,119
Station Type Machines	5	5,650,047	8	8,910,384	7	5,952,523	11	9,495,480
Other Metal Cutting	288	5,325,005	490	7,249,997	395	6,820,575	284	6,641,302
Punching & Shearing Machines	56	3,258,296	111	4,695,896	167	6,683,192	179	5,251,720
Bending & Forming Machines	165	8,316,381	139	6,554,180	139	6,281,392	177	8,308,327
Presses	126	5,543,751	89	4,543,803	113	11,284,355	132	9,144,740
Forging Machines	12	2,088,733	30	3,804,635	18	3,400,845	25	7,031,889
Other Metal Forming	168	8,580,087	241	8,430,558	232	9,985,194	241	7,635,732
TOTAL	6,687	86,524,911	8,156	84,924,757	5,922	87,196,364	7,316	92,274,162

PRODUCT TYPES	DEC'90 Y-T-D TOTALS		DECEMBER 1989		DEC'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	61,537	154,141,660	3,122	9,216,500	55,866	137,472,826
Boring Machines	154	15,807,631	8	1,268,274	251	15,595,047
Drilling Machines	974	17,997,565	62	731,257	753	16,929,726
Gear Cutting Machines	256	58,880,541	38	15,541,997	294	53,883,840
Grinding Machines	4,026	130,596,464	381	12,184,907	3,956	128,375,218
Horizontal Lathes NC	409	43,897,496	14	1,767,718	246	27,189,940
Vertical Lathes NC	72	13,149,920	2	299,840	20	2,849,164
Lathes Non-NC	790	16,879,868	47	1,070,817	518	13,098,404
Milling Machines	443	34,996,260	22	838,137	521	27,245,700
Machining Centers	388	56,616,369	37	3,741,018	380	45,735,981
Station Type Machines	82	51,075,333	3	5,017,482	56	31,713,100
Other Metal Cutting	4,077	78,434,452	222	4,519,217	2,440	57,326,748
Punching & Shearing Machines	1,569	65,370,582	128	5,143,232	1,267	57,419,645
Bending & Forming Machines	1,859	73,708,356	66	2,336,980	1,019	46,708,110
Presses	2,032	99,164,973	206	16,835,790	1,644	92,401,488
Forging Machines	360	51,209,594	37	3,439,617	802	41,121,248
Other Metal Forming	3,053	100,563,494	221	10,516,660	3,814	154,723,011
TOTAL	82,081	1,062,490,558	4,616	94,469,443	73,847	949,789,196

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE NOV 90' - DEC 90'		% CHANGE DEC 89' - DEC 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	33.10	0.11	79.92	6.57	10.15	12.13
Boring Machines	40.00	-18.18	-12.50	-70.77	-38.65	1.36
Drilling Machines	-25.42	-23.85	-29.03	27.10	29.35	6.31
Gear Cutting Machines	0.00	48.72	-36.84	-58.60	-12.93	9.27
Grinding Machines	-2.01	5.83	2.62	-9.03	1.77	1.73
Horizontal Lathes NC	11.54	24.28	107.14	95.20	66.26	61.45
Vertical Lathes NC	300.00	281.22	300.00	265.96	260.00	361.54
Lathes Non-NC	27.14	-18.86	89.36	13.67	52.51	28.87
Milling Machines	76.19	-50.05	68.18	17.80	-14.97	28.45
Machining Centers	-16.00	-14.91	-43.24	-9.89	2.11	23.79
Station Type Machines	57.14	59.52	266.67	89.25	46.43	61.05
Other Metal Cutting	-28.10	-2.63	27.93	46.96	67.09	36.82
Punching & Shearing Machines	7.19	-21.42	39.84	2.11	23.84	13.85
Bending & Forming Machines	27.34	32.27	168.18	255.52	82.43	57.81
Presses	16.81	-18.96	-35.92	-45.68	23.60	7.32
Forging Machines	38.89	106.77	-32.43	104.44	-55.11	24.53
Other Metal Forming	3.88	-23.53	9.05	-27.39	-19.95	-35.00
TOTAL	23.54	5.82	58.49	-2.32	11.15	11.87

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990 Units	SEPTEMBER 1990 Value	OCTOBER 1990 Units	OCTOBER 1990 Value	NOVEMBER 1990 Units	NOVEMBER 1990 Value	DECEMBER 1990 Units	DECEMBER 1990 Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	123,375	18,144,453	81,074	10,309,845	81,837	15,246,777
Boring Machines	52	3,494,230	67	6,367,793	80	2,589,433	54	4,190,094
Drilling Machines	49	2,266,373	133	5,115,447	83	2,416,938	115	1,602,810
Gear Cutting Machines	69	4,625,890	24	9,163,879	40	3,791,633	53	6,613,058
Grinding Machines	616	25,521,740	728	22,115,629	553	16,903,675	626	34,357,642
Horizontal Lathes NC	194	20,111,149	236	24,077,544	126	12,878,638	114	13,105,549
Vertical Lathes NC	4	689,943	10	3,183,656	20	4,701,725	4	419,200
Lathes Non-NC	500	7,286,875	883	10,701,325	671	7,463,658	724	12,100,861
Milling Machines	363	7,383,527	368	6,724,436	432	6,210,377	357	3,618,186
Machining Centers	147	27,592,987	256	30,295,646	168	23,710,026	214	29,511,442
Station Type Machines	14	14,932,439	13	10,334,968	10	3,075,052	11	2,388,079
Other Metal Cutting	233	14,697,321	301	20,848,312	418	15,404,784	352	14,550,273
Punching & Shearing Machines	103	4,806,367	96	7,464,655	148	10,520,914	81	3,226,303
Bending & Forming Machines	161	5,831,579	140	9,706,668	167	8,328,936	135	6,615,138
Presses	416	10,399,978	225	5,254,258	103	18,034,029	171	19,020,684
Forging Machines	144	8,927,234	57	3,756,734	68	3,402,818	80	7,190,174
Other Metal Forming	204	10,822,213	259	16,246,525	214	15,792,641	267	14,347,226
TOTAL	81,753	180,539,323	127,171	209,501,928	84,375	165,535,122	85,195	188,103,496

PRODUCT TYPES	DEC'90 Y-T-D TOTALS Units	DEC'90 Y-T-D TOTALS Value	DECEMBER 1989 Units	DECEMBER 1989 Value	DEC'89 Y-T-D TOTALS Units	DEC'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	972,443	157,204,064	57,233	11,578,118	747,774	160,358,711
Boring Machines	662	44,547,286	33	2,375,161	827	57,094,326
Drilling Machines	1,442	43,700,697	101	6,664,794	1,781	74,104,047
Gear Cutting Machines	526	56,794,974	89	5,929,864	748	45,476,896
Grinding Machines	8,449	300,118,744	714	20,669,640	8,105	273,600,497
Horizontal Lathes NC	2,941	289,649,142	285	27,365,253	4,139	377,912,511
Vertical Lathes NC	175	27,887,284	20	9,235,558	156	30,782,665
Lathes Non-NC	8,388	118,630,185	487	7,560,417	5,559	90,292,335
Milling Machines	5,312	82,032,330	478	5,821,671	6,182	112,467,058
Machining Centers	3,021	399,901,806	325	33,036,088	3,810	410,505,672
Station Type Machines	172	82,841,076	11	2,291,631	193	55,003,313
Other Metal Cutting	4,795	194,400,896	392	25,077,045	4,950	195,793,229
Punching & Shearing Machines	1,643	76,484,396	164	4,771,936	1,800	75,266,818
Bending & Forming Machines	2,169	93,971,772	147	8,320,878	2,513	94,416,732
Presses	3,527	124,007,535	253	6,745,625	1,971	142,782,304
Forging Machines	988	64,475,469	93	11,837,768	1,554	93,119,444
Other Metal Forming	2,801	148,435,400	153	9,761,291	5,747	117,672,309
TOTAL	1,019,454	2,305,083,056	60,978	199,042,738	797,809	2,406,648,867

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE NOV'90 - DEC'90		% CHANGE DEC'89 - DEC'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	0.94	47.89	42.99	31.69	30.05	-1.97
Boring Machines	-32.50	61.82	63.64	76.41	-19.95	-21.98
Drilling Machines	38.55	-33.68	13.86	-75.95	-19.03	-41.03
Gear Cutting Machines	32.50	74.41	-40.45	11.52	-29.68	24.89
Grinding Machines	13.20	103.26	-12.32	66.22	4.24	9.69
Horizontal Lathes NC	-9.52	1.76	-60.00	-52.11	-28.94	-23.36
Vertical Lathes NC	-80.00	-91.08	-80.00	-95.46	12.18	-9.41
Lathes Non-NC	7.90	62.13	48.67	60.06	50.89	31.38
Milling Machines	-17.36	-41.74	-25.31	-37.85	-14.07	-27.06
Machining Centers	27.38	24.47	-34.15	-10.67	-20.71	-2.58
Station Type Machines	10.00	-22.34	0.00	4.21	-10.88	50.61
Other Metal Cutting	-15.79	-5.55	-10.20	-41.98	-3.13	-0.71
Punching & Shearing Machines	-45.27	-69.33	-50.61	-32.39	-8.72	1.62
Bending & Forming Machines	-19.16	-20.58	-8.16	-20.50	-13.69	-0.47
Presses	66.02	5.47	-32.41	181.97	78.94	-13.15
Forging Machines	17.65	111.30	-13.98	-39.26	-36.42	-30.76
Other Metal Forming	24.77	-9.15	74.51	46.98	-51.26	26.14
TOTAL	0.97	13.63	39.71	-5.50	27.78	-4.22

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

RELEASED: February 27, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	92	7923	16	1636
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	81	14083	7	838
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543	0	0
100035	Horiz. mach. ctrs., ATC	54	14676	7	1990
100045	Machining centers, n.e.c.	234	23314	7	543
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	9	4870	2	1401
300010	Multi-station transfer machines, NC	21	33589	6	7673
300090	Multi-station transfer machines, non-NC	24	5959	0	0
8458110010	Horizontal lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	294	23157	20	2105
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	68	9273	8	1102
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5587	1	243
190030	Horizontal engine or toolroom lathes, non-NC	117	2020	9	152
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	532	1	12
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	57	2883	2	28
190090	Horizontal lathes, n.e.c., non-NC	454	5641	48	458
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	6	1443	1	650
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	47	9105	7	447
991050	Vertical turret lathes, non-NC	61	1247	24	437
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	4557	5	130
8459100000	Way-type unit head machines	26	6427	3	421
210080	Other drilling machines, NC	101	9039	10	591
290040	Drilling machines, multiple spindle, non-NC	33	1704	0	0
290050	Drilling machines, radial, non-NC	21	209	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	103	2192	3	135
290090	Drilling machines, n.e.c., non-NC	716	4854	31	203
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling machines, n.e.c., NC	20	1155	1	30
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	1139	2	242
400040	Boring machines, vertical, NC	8	2483	0	0
400050	Boring machines, vertical, non-NC	44	1451	3	57
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	31	1502	1	39
510080	Milling machines, knee type, NC	22	2273	1	73
590030	Milling machines, knee type, non-NC	124	4402	12	325
610080	Milling machines, excl. knee type, n.e.c., NC	59	20911	1	281
690050	Milling machines, profile, dup., or die sinking, non-NC	26	555	3	22
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	210	6567	20	287
700020	Threading or tapping machines, n.e.c., NC	41	1577	4	81
700080	Threading or tapping machines, n.e.c., non-NC	726	6580	25	505
8460110080	Flat surface grinding mach., NC	86	9339	6	763
190010	Flat surface grinding mach., recip.-table type, non-NC	59	1040	5	94
190050	Flat surface grinding mach., n.e.c., non-NC	39	7902	7	1090
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	112	32263	11	3433
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	53	6269	2	121
290030	Grinding mach., internal cylindrical, non-NC	53	3594	7	271
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	384	15639	27	1228
310080	Sharpening machines (tool & cutter grinding), NC	49	4252	1	40
390050	Sharpening machines (tool & cutter grinding), non-NC	1084	14729	105	946
400060	Honing or lapping machines, NC	4	827	1	209
400080	Honing or lapping machines, non-NC	893	14609	101	1213
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	1402	11	375
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1190	18731	107	1302
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	279	7445	10	242
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	0	0
300060	Broaching machines, NC	13	1600	0	0
300080	Broaching machines, non-NC	28	2066	2	654
401050	Gear hobbers	42	5758	6	830
401070	Gear shapers	51	7000	4	399
401090	Gear cutting machines, n.e.c.	96	40356	9	3951
405060	Gear grinding or finishing machines	67	5766	5	1255
500050	Sawing or cutting-off machines, NC	123	4492	10	316
500090	Sawing or cutting-off machines, non-NC	1466	19230	117	1510
9000000001	Metal cutting machine tools, n.e.c.	1256	25202	100	1698
9800000001	Used or rebuilt machine tools	5007	58208	288	2525
9900000001	Machine tools valued at less than $2,500	39124	23482	3857	1699
	Cutting Total			5090	49304
	Y-T-D Cutting Total	55802	600022		
	NC Y-T-D Cutting Total*	1812	259312		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	3	555
8457100015	0	0	0	0	3	406	0	0	2	251
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	3	832	0	0	1	156
100045	0	0	0	0	0	0	0	0	2	165
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	105	0	0	3	261	0	0	3	699
110050	0	0	0	0	0	0	0	0	6	672
110090	0	0	0	0	0	0	0	0	0	0
190030	2	8	0	0	0	0	0	0	2	44
190050	0	0	0	0	0	0	0	0	1	12
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	126
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	7	447	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	20	2	70
8459100000	0	0	0	0	0	0	3	421	0	0
210080	0	0	0	0	0	0	0	0	6	359
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	11	97
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	143	1	98
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	39
510080	0	0	0	0	0	0	0	0	1	73
590030	3	82	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	51
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	3	0	0	7	29
8460100080	0	0	0	0	0	0	1	19	1	519
190010	0	0	0	0	0	0	0	0	5	94
190050	0	0	0	0	0	0	0	0	5	322
210080	0	0	0	0	0	0	0	0	2	795
290010	0	0	0	0	0	0	0	0	2	121
290030	0	0	0	0	0	0	7	271	0	0
290050	0	0	1	200	0	0	0	0	2	31
310080	0	0	0	0	0	0	0	0	0	0
390050	5	239	0	0	0	0	29	184	10	79
400060	0	0	0	0	0	0	0	0	1	209
400080	0	0	1	19	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	7	0	0	1	12	14	87
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	12	1	747
500050	0	0	0	0	0	0	0	0	4	94
500090	0	0	0	0	0	0	0	0	8	110
9000000001	0	0	0	0	0	0	7	426	8	56
9800000001	8	138	0	0	2	11	0	0	40	627
9900000001	108	33	23	17	5	4	20	13	229	267
Month Tot	128	605	26	242	17	1516	78	1967	388	7653
Y-T-D Tot	1788	15732	181	505	722	20115	770	17568	6270	115566
MC YTD Tot*	20	7243	1	23	155	17527	49	5715	391	63423

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	171	2	101	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	650
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	152	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	8	1	25	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	281
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	41
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	5	972	0	0	2	770	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	23	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	45	0	0	0	0	0	0	5	64
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	5	101	0	0	0	0	1	16
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	4
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	1	699
405060	0	0	0	0	1	459	0	0	0	0
500050	0	0	0	0	0	0	1	62	0	0
500090	0	0	2	14	1	10	0	0	1	24
9000000001	2	5	0	0	0	0	2	25	9	46
9800000001	0	0	8	153	0	0	2	8	3	85
9900000001	0	0	39	25	0	0	2	3	46	29
Month Tot	12	1345	61	425	5	1263	7	98	71	1942
Y-T-D Tot	253	20537	1168	8092	786	20871	191	443	1709	19032
MC YTD Tot*	72	13405	55	3817	32	10473	1	62	57	6646

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	71	1	156	0	0	4	474	0	0
8457100015	0	0	1	88	1	93	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	2	602	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	222	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	2	1401	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	78	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	431	0	0
110090	0	0	0	0	0	0	1	243	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	14	220	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	9	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	43	0	0	0	0	1	37	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	10	43	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	[illegible]	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	45	0	0	1	17	1	22	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	5	76	1	21	0	0	8	97	0	0
700020	0	0	0	0	0	0	2	20	0	0
700080	0	0	0	0	0	0	3	14	0	0
8460110080	0	0	0	0	0	0	1	70	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	217	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	130	0	0	0	0	10	264	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	33	261	1	4	6	36	4	27	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	96	41	429	0	0	1	3	2	31
900060	0	0	0	0	0	0	0	0	0	0
900080	2	27	2	13	1	8	13	247	2	14
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	70	4	99	0	0	2	47	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	2	336	0	0	0	0	1	28	0	0
401090	0	0	6	2673	0	0	0	0	0	0
405060	1	27	0	0	0	0	1	11	0	0
500050	1	61	0	0	0	0	0	0	0	0
500090	7	32	2	23	0	0	7	73	12	93
9000000001	4	15	1	6	0	0	5	29	1	27
9800000001	2	69	7	144	0	0	73	662	3	8
9900000001	488	163	497	276	0	0	1260	157	28	16
Month Tot	556	2419	564	3931	9	154	1430	4852	48	188
Y-T-D Tot	4635	45476	2798	47157	412	2487	11322	54629	582	6168
NC YTD Tot*	144	15305	62	12687	3	224	190	14954	11	915

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	2	47	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	9	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	99	0	0	0	0	0	0	1	28
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	169	5	168	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	4	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	13	184	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	15	0	0	9	102	5	54	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	4	100	0	0	0	0
500090	5	74	3	40	0	0	0	0	5	27
9000000001	4	117	0	0	1	9	5	206	2	36
9800000001	0	0	0	0	18	47	0	0	0	0
9900000001	50	76	69	52	48	31	176	45	5	8
Month Tot	65	559	78	265	93	473	188	352	13	98
Y-T-D Tot	1964	8698	750	5977	1091	5728	1022	11267	432	2271
MC YTD Tot*	19	2489	43	1637	9	1530	25	5599	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	7	380	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	400	0	0
100045	2	156	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	6	7673	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	4	354	0	0	1	86	0	0	3	250
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	53	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	2	28
190090	13	47	0	0	0	0	0	0	15	54
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	23	428	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	40
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	1	10	0	0	2	125
290090	0	0	0	0	0	0	0	0	7	30
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	33
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	57
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	31
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	3	22	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	27	0	0	0	0	0	0	2	15
700020	2	61	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	232	0	0	12	228
8460110080	0	0	0	0	0	0	0	0	2	113
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	550	0	0
210080	1	343	0	0	0	0	0	0	1	554
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	3	106	0	0	0	0	4	160	0	0
310080	0	0	0	0	0	0	0	0	1	40
390050	0	0	0	0	0	0	10	69	3	19
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	27	243	8	100
900060	0	0	0	0	0	0	0	0	11	375
900080	7	61	0	0	2	13	4	120	37	405
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	2	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	654
401050	0	0	0	0	0	0	3	159	3	672
401070	0	0	0	0	0	0	1	36	0	0
401090	0	0	0	0	0	0	2	579	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	56	863	0	0	0	0	2	57	6	70
9000000001	25	485	0	0	0	0	12	75	12	134
9800000001	17	64	19	49	0	0	47	301	39	159
9900000001	153	92	0	0	129	42	157	100	325	252
Month Tot	310	3139	19	49	135	383	287	10923	502	4460
Y-T-D Tot	4208	46249	57	7910	1127	7232	3214	61171	8350	48341
NC YTD Tot*	220	28871	0	0	14	1230	77	29878	156	15339

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	365	8996	51	771
8462100030	Headers and upsetters, including cold headers	61	23979	8	5454
100050	Forging or die stamping machines, and hammers, n.e.c.	299	27231	17	1578
210080	Bending, folding, straight. or flat. mach., incl presses, NC	390	36209	68	5460
290030	Press brakes, non-NC	158	3793	10	159
290040	Bending rolls, non-NC	102	3209	27	775
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1209	30498	72	1915
310080	Shearing machines, NC	92	7790	8	448
390050	Shearing machines, non-NC	424	9685	52	509
410080	Punching or notching mach., incl. comb. punch & shear, NC	172	26135	13	2555
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	881	21760	106	1740
910060	Hydraulic presses, NC	84	4935	5	115
910090	Hydraulic presses, non-NC	581	27848	30	2194
990030	Presses, n.e.c., NC	147	12730	7	1078
990040	Presses, mechanical, non-NC	108	12548	8	1349
990060	Presses, n.e.c., non-NC	1112	41104	82	4408
8463100080	Draw benches for bars, tubes, profiles, wire or the like	242	6670	27	319
200080	Thread rolling machines	60	2726	6	187
300080	Machines for working wire	750	23651	69	2717
900080	Metal forming machine tools, n.e.c.	1636	58520	88	3642
9800000002	Used or rebuilt machine tools	3242	61461	178	4639
9900000002	Machine tools valued at less than $2,500	14164	10991	1294	958
	Forming Total			2226	42970
	Y-T-D Forming Total	26279	462469		
	NC Y-T-D Forming Total	885	87799		
	Cutting and Forming Totals:				
	Monthly Total			7316	92274
	Y-T-D Total	82081	1062491		
	NC Y-T-D Total*	2697	347111		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	722127	0	58324
2000000000	Parts for working rubber or plastics - heading 8477	0	282599	0	22830
2710003070	Quenching or cutting oils	0	18520	0	402
8428900010	Industrial robots for lifting, handling, loading or unload	360	6637	42	210
8431390090	Parts industrial robots, handling and loading - heading 8428	0	74510	0	5068
8456100000	Laser, light or photon beam for working any material	933	46118	72	3128
200000	Ultrasonic process for working any material	77	1915	5	87
8477106010	Injection molding mach., for rubber or oth. thermosetting	305	21848	31	2822
106070	Injection molding mach., for thermoplastics	423	54100	37	7208
200010	Extruders for rubber or other thermosetting materials	352	16584	23	1246
200050	Extruders for processing thermoplastics	845	41527	52	1864
300000	Blow molding machines	557	43754	49	4207
400000	Vacuum-molding and other thermoforming machines	4713	13781	70	548
510010	Machines for molding or retreading pneumatic tires	1522	20511	77	1045
510090	Machines for molding or otherwise forming inner tubes	449	29446	59	1047
590000	Machines for molding or otherwise forming n.e.c.	1467	23546	149	1623
800000	Machines for working rubber or plastics n.e.c.	5684	109676	663	7767
8479899040	Industrial robots, n.e.c.	6146	58292	828	6595
908040	Industrial robot parts	0	27524	0	1660
8537100030	Numerical controls for controlling machine tools	1937	28709	106	1483
9024100000	Machines and appliances for testing metals	0	75730	0	6140
9031100000	Machines for balancing mechanical parts	0	28815	0	2446
300000	Profile projectors	0	6956	0	272
9032810040	Industrial process control instr., hydraulic or pneumatic	805728	59130	60848	3339

Note: Product code 1000000000 represents aggregated machine tool parts codes 8461100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	7	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	5	565	1	356
210080	1	63	0	0	0	0	0	0	4	256
290030	0	0	0	0	0	0	0	0	7	56
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	111	25	688
310080	0	0	0	0	0	0	0	0	1	111
390050	0	0	0	0	0	0	0	0	14	170
410080	1	31	0	0	0	0	0	0	3	70
490050	0	0	0	0	0	0	0	0	42	394
910060	0	0	0	0	0	0	0	0	0	0
910090	1	149	0	0	0	0	0	0	6	542
990030	2	106	0	0	0	0	0	0	1	261
990040	0	0	0	0	0	0	0	0	0	0
990060	3	76	0	0	0	0	3	156	12	144
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	68	4	92
300080	0	0	0	0	2	133	5	34	12	551
900080	22	500	0	0	0	0	0	0	8	85
9800000002	14	249	2	44	0	0	1	14	23	396
9900000002	138	51	0	0	54	26	6	5	101	116
Month Tot	183	1231	2	44	56	159	25	952	264	4286
Y-T-D Tot	643	7409	71	2472	635	2758	639	10186	4209	67404
NC YTD Tot	32	2179	0	0	0	0	10	804	169	20968
C&F Month	311	1836	28	286	73	1675	103	2920	652	11939
C&F Y-T-D	2431	23141	252	2977	1357	22873	1409	27754	10479	182970
C&F NC YTD*	52	9422	1	23	155	17527	59	6519	560	84392

Other Manufacturing Technology

1000000000	0	823	0	108	0	744	0	1508	0	10205
2000000000	0	1946	0	75	0	319	0	717	0	5583
2710003070	0	36	0	0	0	0	0	9	0	48
8428900010	0	0	0	0	0	0	0	0	16	156
8431390090	0	335	0	0	0	23	0	11	0	732
8456100000	0	0	0	0	0	0	0	0	3	410
200000	0	0	0	0	0	0	1	20	0	0
8477106010	0	0	0	0	0	0	0	0	2	328
106070	0	0	1	79	0	0	0	0	20	5599
200010	0	0	0	0	0	0	7	176	15	369
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	23	235
510010	1	36	0	0	15	41	1	29	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	25	0	0	0	0	2	103
800000	10	280	0	0	11	68	14	731	63	1069
8479899040	0	0	0	0	9	54	0	0	593	3557
908040	0	17	0	0	0	0	0	0	0	363
8537100030	0	0	1	19	0	0	0	0	2	26
9024100000	0	141	0	181	0	12	0	23	0	1572
9031100000	0	0	0	0	0	0	0	82	0	856
300000	0	0	0	0	0	0	0	26	0	11
9032810040	567	70	189	92	250	125	47	20	2025	352

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	5	15	11	4	38	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	53	3	273	0	0	3	122	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	2	111
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	1	833
990030	0	0	3	630	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	23	0	0	1	15
8463100080	0	0	1	19	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	6	142	0	0	0	0	1	7
900080	0	0	0	0	3	83	0	0	0	0
9800000002	0	0	0	0	0	0	6	62	0	0
9900000002	0	0	46	41	4	4	0	0	13	13
Month Tot	2	58	74	1116	12	147	9	184	18	979
Y-T-D Tot	414	16732	692	19409	423	6715	267	6924	331	9212
NC YTD Tot	21	4945	49	5171	0	0	4	701	11	1432
C&F Month	14	1403	135	1541	17	1411	16	282	89	2921
C&F Y-T-D	667	37269	1860	28302	1209	27585	458	7368	2040	28244
C&F NC YTD*	93	18349	104	8988	32	10473	5	763	68	8077

Other Manufacturing Technology

1000000000	0	736	0	1331	0	533	0	60	0	1497
2000000000	0	18	0	411	0	155	0	95	0	354
2710003070	0	0	0	0	0	32	0	0	0	11
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	12	0	251	0	13	0	33	0	4
8456100000	1	293	0	0	0	0	0	0	0	0
200000	0	0	2	34	0	0	0	0	0	0
8477106010	0	0	1	26	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	1	106	0	0	1	432	0	0
300000	0	0	1	1116	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	3	26	17	420	0	0	0	0
510090	0	0	0	0	0	0	0	0	1	40
590000	0	0	4	60	0	0	0	0	3	31
800000	278	2119	1	55	23	354	0	0	0	0
8479899040	2	85	13	575	0	0	0	0	6	38
908040	0	0	0	58	0	0	0	0	0	0
8537100030	0	0	11	142	0	0	0	0	7	96
9024100000	0	18	0	188	0	0	0	11	0	67
9031100000	0	0	0	0	0	233	0	0	0	36
300000	0	0	0	0	0	0	0	0	0	4
9032810040	145	63	1659	79	0	0	0	0	655	83

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	8	90	9	96	1	10
8462100030	2	3120	0	0	0	0	0	0	0	0
100050	0	0	6	345	0	0	2	109	0	0
210080	0	0	0	0	0	0	6	337	0	0
290030	0	0	0	0	0	0	1	33	0	0
290040	8	140	0	0	0	0	1	10	0	0
290050	2	38	1	9	0	0	13	177	0	0
310080	4	220	0	0	0	0	3	117	0	0
390050	3	56	0	0	0	0	5	68	0	0
410080	1	24	0	0	0	0	3	757	4	792
490050	0	0	2	65	0	0	16	306	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	24	0	0	16	373	1	134
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	52	0	0
990060	10	337	1	280	0	0	28	489	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	5	102	8	248	0	0	4	34	0	0
900080	16	1296	12	314	2	47	7	71	0	0
9800000002	9	186	17	350	0	0	52	1726	0	0
9900000002	165	66	43	28	0	0	195	166	24	21
Month Tot	225	5585	91	1663	10	137	362	4921	30	958
Y-T-D Tot	1971	38198	789	34688	114	4635	5603	54694	426	9774
NC YTD Tot	38	3831	50	4118	18	989	123	7345	59	6051
C&F Month	781	8004	655	5594	19	291	1792	9773	78	1146
C&F Y-T-D	6606	83674	3587	81845	526	7122	16925	109323	1008	15942
C&F NC YTD*	182	19136	112	16806	21	1213	313	22298	70	6965

Other Manufacturing Technology

1000000000	0	4968	0	3683	0	441	0	3773	0	2286
2000000000	0	483	0	978	0	276	0	1420	0	62
2710003070	0	17	0	0	0	0	0	65	0	3
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	140	0	130	0	0	0	316	0	117
8456100000	37	1045	0	0	0	0	1	25	1	13
200000	1	17	0	0	0	0	0	0	0	0
8477106010	1	38	0	0	0	0	19	1903	0	0
106070	2	526	0	0	0	0	9	445	0	0
200010	1	700	0	0	0	0	0	0	0	0
200050	4	82	0	0	3	65	16	552	1	9
300000	2	561	0	0	0	0	26	940	0	0
400000	16	20	1	7	0	0	5	17	0	0
510010	13	11	0	0	1	28	6	89	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	27	474	0	0	0	0	18	298	18	300
800000	1	3	5	299	80	515	29	554	9	40
8479899040	12	105	0	0	1	3	4	220	0	0
908040	0	668	0	11	0	0	0	0	0	0
8537100030	2	25	9	125	2	22	2	20	0	0
9024100000	0	1016	0	427	0	0	0	133	0	83
9031100000	0	0	0	369	0	0	0	77	0	0
300000	0	12	0	26	0	0	0	0	0	0
9032810040	2039	146	1463	82	9	7	629	150	10606	533

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	472	0	0	0	0	1	36	0	0
8462100030	0	0	0	0	2	200	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	1600
290030	0	0	0	0	0	0	0	0	0	0
290040	4	180	0	0	0	0	0	0	0	0
290050	0	0	1	36	3	39	1	13	1	23
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	4	20	87
410080	0	0	0	0	0	0	0	0	0	0
490050	2	15	0	0	0	0	0	0	6	67
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	1	72	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	2	74	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	577	0	0	0	0
8463100080	0	0	23	233	3	67	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	13	0	0	1	76
900080	1	119	0	0	0	0	0	0	0	0
9800000002	3	154	1	14	0	0	0	0	6	143
9900000002	56	49	0	0	68	58	6	5	10	8
Month Tot	78	1063	25	282	80	955	10	130	46	2003
Y-T-D Tot	590	6618	177	5843	431	3066	423	16981	256	6290
MC YTD Tot	7	746	25	499	2	65	29	1869	6	1755
C&F Month	143	1622	103	547	173	1429	198	482	59	2102
C&F Y-T-D	2554	15316	927	11821	1522	8794	1445	28248	688	8562
C&F MC YTD*	26	3235	68	2136	11	1596	54	7468	12	2074

Other Manufacturing Technology

1000000000	0	2210	0	305	0	902	0	596	0	388
2000000000	0	758	0	49	0	174	0	1017	0	767
2710003070	0	7	0	0	0	0	0	59	0	0
8428900010	0	0	0	0	2	3	0	0	0	0
8431390090	0	71	0	6	0	0	0	198	0	4
8456100000	0	0	0	0	2	119	3	512	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	6	0	0	0	0	2	50	0	0
300000	0	0	0	0	1	101	0	0	0	0
400000	0	0	0	0	0	0	14	123	2	45
510010	1	14	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	15	7
590000	16	23	5	33	0	0	1	18	0	0
800000	31	36	0	0	0	0	1	30	0	0
8479899040	1	11	0	0	8	96	0	0	0	0
908040	0	8	0	114	0	12	0	3	0	0
8537100030	1	8	0	0	0	0	0	0	1	19
9024100000	0	68	0	42	0	27	0	355	0	0
9031100000	0	213	0	0	0	0	0	109	0	0
300000	0	4	0	0	0	0	0	0	0	0
9032810040	4588	352	116	16	424	40	519	27	25662	77

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F MC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	6
8462100030	0	0	0	0	0	0	2	668	2	1466
100050	0	0	0	0	0	0	2	128	1	75
210080	1	186	0	0	0	0	0	0	54	3018
290030	0	0	0	0	0	0	0	0	2	70
290040	0	0	0	0	0	0	0	0	14	445
290050	4	86	0	0	0	0	3	87	7	161
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	103	1	7	1	16
410080	0	0	0	0	0	0	0	0	1	883
490050	3	21	0	0	0	0	3	88	30	673
910060	1	22	0	0	0	0	2	56	2	37
910090	1	19	0	0	0	0	0	0	2	48
990030	0	0	0	0	0	0	0	0	1	81
990040	3	1130	0	0	0	0	2	94	0	0
990060	1	195	0	0	0	0	18	1666	3	451
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	26
300080	1	26	0	0	0	0	15	780	6	570
900080	5	123	0	0	2	118	6	90	4	794
9800000002	2	30	0	0	2	311	9	540	31	423
9900000002	144	122	0	0	0	0	45	38	176	143
Month Tot	166	1959	0	0	11	532	108	4243	339	9383
Y-T-D Tot	2092	37118	22	733	316	2543	1499	30151	3246	61914
NC YTD Tot	64	6743	1	136	5	459	16	1756	146	15238
C&F Month	476	5098	19	49	146	915	395	15166	841	13843
C&F Y-T-D	6300	83367	79	8643	1443	9776	4713	91321	11596	110255
C&F NC YTD*	284	35614	1	136	19	1689	93	31633	302	30578

Other Manufacturing Technology

1000000000	0	3521	0	2233	0	701	0	6891	0	7883
2000000000	0	2141	0	34	0	521	0	1336	0	3142
2710003070	0	0	0	0	0	0	0	13	0	102
8428900010	22	22	0	0	0	0	0	0	1	14
8431390090	0	155	0	0	0	457	0	620	0	1441
8456100000	5	157	0	0	0	0	5	202	14	352
200000	0	0	0	0	0	0	0	0	1	15
8477106010	1	87	0	0	0	0	0	0	7	439
106070	2	186	0	0	0	0	0	0	3	374
200010	0	0	0	0	0	0	0	0	0	0
200050	4	34	0	0	0	0	1	120	18	409
300000	14	1414	0	0	0	0	0	0	5	75
400000	1	35	0	0	0	0	7	61	1	5
510010	0	0	0	0	0	0	0	0	19	351
510090	0	0	0	0	0	0	0	0	43	1000
590000	3	88	0	0	0	0	6	96	45	76
800000	30	402	0	0	2	40	30	419	45	754
8479899040	23	459	0	0	0	0	126	1073	30	321
908040	0	109	0	0	0	43	0	195	0	58
8537100030	24	416	0	0	0	0	26	340	18	225
9024100000	0	858	0	0	0	13	0	522	0	385
9031100000	0	0	0	0	0	107	0	54	0	311
300000	0	110	0	0	0	0	0	32	0	47
9032810040	1909	241	0	0	359	24	2475	205	2262	554

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	16	166	16	166
Denmark	1	33	9	166	10	199
East Germany	0	0	0	0	0	0
Finland	11	12	13	54	24	66
Greece	2	131	4	3	6	135
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	36	109	1	25	37	134
Luxembourg	0	0	7	6	7	6
Norway	0	0	0	0	0	0
Poland	12	930	0	0	12	930
Portugal	2	27	0	0	2	27
Romania	0	0	2	131	2	131
Sweden	138	736	50	739	188	1475
Turkey	1	3	4	3	5	6
Yugoslavia	0	0	1	6	1	6
Oth Europe	0	0	0	0	0	0
TOTAL	1213	21145	666	11995	1879	33140
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	3	6	4	74	7	80
Dominican Rep	0	0	4	66	4	66
El Salvador	0	0	1	9	1	9
Guatemala	0	0	3	34	3	34
Haiti	0	0	0	0	0	0
Honduras	0	0	1	21	1	21
Jamaica	0	0	0	0	0	0
Panama	2	28	16	14	18	42
Trinidad	1	164	0	0	1	164
Oth N & C Am.	15	54	1	7	16	60
TOTAL	1839	12757	656	9431	2495	22187
SOUTH AMERICA						
Argentina	5	335	1	883	6	1218
Bolivia	0	0	1	6	1	6
Chile	52	85	2	1466	54	1551
Colombia	2	28	23	13	25	41
Ecuador	5	54	1	6	6	60
Paraguay	0	0	0	0	0	0
Peru	3	26	1	15	4	40
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	280	2879	65	3872	345	6750
OCEANIA						
New Zealand	0	0	7	91	7	91
Oth Oceania	0	0	0	0	0	0
TOTAL	128	605	190	1322	318	1927

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	36	82	50	411	86	493
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	54	374	6	208	60	582
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	4	44	4	44
Philippines	22	40	49	2684	71	2725
Qatar	0	0	0	0	0	0
Saudi Arabia	10	85	28	1382	38	1467
Sri Lanka	7	7	0	0	7	7
Syria	0	0	0	0	0	0
United Arab Emr	2	43	0	0	2	43
Vietnam	0	0	0	0	0	0
Oth Asia	1	11	1	81	2	92
TOTAL	1551	10863	621	15780	2172	26643
AFRICA						
Algeria	0	0	2	429	2	429
Botswana	0	0	0	0	0	0
Egypt	17	754	3	86	20	840
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	43	185	13	48	56	233
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	17	113	0	0	17	113
Oth Africa	2	5	10	8	12	12
TOTAL	79	1056	28	570	107	1627

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - December 90

RELEASED: February 27, 1991

		TOTAL UNITS	YTD $000
8456300000	Electro-discharge machines	92	7923
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	81	14083
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543
100035	Horiz. mach. ctrs., ATC	54	14676
100045	Machining centers, n.e.c.	234	23314
200010	Unit construction mach. (single station transfer), NC	2	230
200090	Unit construction mach. (single station transfer), non-NC	9	4870
300010	Multi-station transfer machines, NC	21	33589
300090	Multi-station transfer machines, non-NC	24	5959
8458110010	Horizontal lathes, multiple spindle, NC	25	5881
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	294	23157
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	68	9273
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5587
190030	Horizontal engine or toolroom lathes, non-NC	117	2020
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	532
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	57	2883
190090	Horizontal lathes, n.e.c., non-NC	454	5641
911060	Vertical turret lathes, multiple spindle, NC	4	1255
911080	Vertical turret lathes, n.e.c., NC	6	1443
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347
915070	Vertical lathes, excl. VTL's, n.e.c., NC	47	9105
991050	Vertical turret lathes, non-NC	61	1247
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	4557
8459100000	Way-type unit head machines	26	6427
210080	Other drilling machines, NC	101	9039
290040	Drilling machines, multiple spindle, non-NC	33	1704
290050	Drilling machines, radial, non-NC	21	209
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	103	2192
290090	Drilling machines, n.e.c., non-NC	716	4854
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856
310070	Boring-milling machines, n.e.c., NC	20	1155
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	1139
400040	Boring machines, vertical, NC	8	2483
400050	Boring machines, vertical, non-NC	44	1451
400070	Boring machines, n.e.c., NC	9	3308
400080	Boring machines, n.e.c., non-NC	31	1502
510080	Milling machines, knee type, NC	22	2273
590030	Milling machines, knee type, non-NC	124	4402
610080	Milling machines, excl. knee type, n.e.c., NC	59	20911
690050	Milling machines, profile, dup., or die sinking, non-NC	26	555
690070	Milling machines, bed type, non-NC	2	288
690090	Milling machines, n.e.c., non-NC	210	6567
700020	Threading or tapping machines, n.e.c., NC	41	1577
700080	Threading or tapping machines, n.e.c., non-NC	72[illegible]	6580
8460110080	Flat surface grinding mach., NC	86	9339
190010	Flat surface grinding mach., recip.-table type, non-NC	59	1040
190050	Flat surface grinding mach., n.e.c., non-NC	39	7902
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	112	32263
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	53	6269
290030	Grinding mach., internal cylindrical, non-NC	53	3594
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	384	15639
310080	Sharpening machines (tool & cutter grinding), NC	49	4252
390050	Sharpening machines (tool & cutter grinding), non-NC	1084	14729
400060	Honing or lapping machines, NC	4	827
400080	Honing or lapping machines, non-NC	893	14609
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	1402
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1190	18731
8461100060	Planing machines, NC	6	788
100080	Planing machines, non-NC	279	7445
200010	Shaping or slotting machines, NC	9	365
200090	Shaping or slotting machines, non-NC	38	1168
300060	Broaching machines, NC	13	1600
300080	Broaching machines, non-NC	28	2066
401050	Gear hobbers	42	5758
401070	Gear shapers	51	7000
401090	Gear cutting machines, n.e.c.	96	40356
405060	Gear grinding or finishing machines	67	5766
500050	Sawing or cutting-off machines, NC	123	4492
500090	Sawing or cutting-off machines, non-NC	1466	19230
9000000001	Metal cutting machine tools, n.e.c.	1256	25202
9800000001	Used or rebuilt machine tools	5007	58208
9900000001	Machine tools valued at less than $2,500	39124	23482
	Y-T-D Cutting Total	55802	600022
	NC Y-T-D Cutting Total*	1812	259312

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	33	3047
8457100015	0	0	0	0	17	2097	0	0	41	8114
100025	0	0	0	0	0	0	0	0	11	2440
100035	0	0	0	0	18	4018	0	0	13	2986
100090	0	0	0	0	27	3677	1	297	34	3703
200020	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	15	3435
110030	7	679	0	0	54	4282	0	0	19	2279
110050	0	0	0	0	29	3019	1	226	21	2867
110090	0	0	0	0	0	0	2	575	19	4769
190030	3	37	0	0	0	0	0	0	11	416
190050	0	0	0	0	0	0	2	91	12	307
190070	0	0	0	0	0	0	0	0	11	743
190090	56	218	0	0	4	47	0	0	73	1402
911060	0	0	0	0	0	0	0	0	2	1088
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	2	713
915070	0	0	0	0	0	0	7	447	1	103
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	4	195	20	575
8459100000	0	0	0	0	1	181	5	572	0	0
210080	1	33	0	0	0	0	5	253	22	3364
290040	0	0	0	0	0	0	0	0	15	636
290050	0	0	0	0	0	0	0	0	17	120
290070	15	92	0	0	0	0	0	0	49	570
290090	18	80	0	0	0	0	14	119	299	1809
310010	0	0	0	0	0	0	2	759	1	95
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	143	6	498
400040	0	0	0	0	0	0	0	0	4	1344
400050	9	150	0	0	0	0	2	628	14	289
400070	0	0	0	0	0	0	0	0	9	3308
400080	0	0	0	0	0	0	[illegible]	320	9	465
510080	1	55	0	0	0	[illegible]	[illegible]	0	15	1639
590030	22	944	0	0	0	0	[illegible]	0	31	898
610080	2	2471	0	0	0	0	0	0	7	1018
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	1	7	0	0	0	0	6	843	26	371
700020	1	17	1	23	8	203	0	0	3	306
700080	4	79	0	0	153	1245	0	0	124	992
8460110080	3	2094	0	0	1	30	15	1567	7	2319
190010	0	0	0	0	0	0	0	0	17	397
190050	4	861	0	0	0	0	2	320	9	1335
210080	1	255	0	0	0	0	2	440	23	9566
290010	0	0	0	0	0	0	6	431	9	543
290030	0	0	0	0	0	0	7	271	4	100
290050	0	0	1	200	0	0	38	963	73	2964
310080	3	89	0	0	0	0	0	0	4	317
390050	11	315	0	0	1	9	47	301	300	7200
400060	0	0	0	0	0	0	0	0	3	728
400080	15	202	5	70	1	8	2	9	42	806
900060	0	0	0	0	0	0	0	0	3	659
900080	19	195	4	32	5	44	13	903	257	2862
8461100060	0	0	0	0	0	0	5	676	1	111
100080	9	64	1	40	0	0	23	485	1	69
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	2	5	0	0	0	0	7	208
300060	0	0	0	0	0	0	0	0	4	825
300080	3	50	0	0	0	0	0	0	11	405
401050	0	0	0	0	0	0	0	0	11	1082
401070	0	0	0	0	4	214	4	1778	11	1416
401090	2	1153	0	0	0	0	4	1839	1	487
405060	0	0	0	0	0	0	1	12	5	1777
500050	0	0	0	0	1	202	0	0	86	3219
500090	46	473	1	12	9	170	5	95	263	2984
9000000001	1	8	0	0	0	0	29	627	244	1823
9800000001	130	2410	4	16	12	335	141	1264	782	9078
9900000001	1396	841	162	107	377	335	369	81	3089	3509
Y-T-D Tot	1788	15732	181	505	722	20115	770	17568	6270	115566
NC YTD Tot*	20	7243	1	23	155	17527	49	5715	391	63423

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - December 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	1	114	1	280	0	0	0	0	1	140
100025	2	845	0	0	0	0	0	0	1	296
100035	3	967	0	0	0	0	0	0	0	0
100045	28	4371	1	202	1	223	0	0	2	553
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	2	201	0	0	0	0	0	0
110030	3	387	15	1163	0	0	0	0	0	0
110050	2	443	2	388	2	498	0	0	2	710
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	12	250
190090	1	7	0	0	0	0	1	7	9	49
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	2	830
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	20	6687	0	0	0	0
991050	0	0	8	151	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	10	628	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	3	12	9	71	0	0	5	195
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1375
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	41	1	124	1	25	0	0	1	19
610080	13	2138	3	257	1	716	0	0	2	389
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700090	0	0	6	132	4	17	1	5	12	173
8460110080	1	787	4	132	0	0	0	0	1	41
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	8	2376	3	584	5	1981	0	0	3	755
290010	9	2339	3	972	0	0	0	0	0	0
290030	2	73	4	180	8	1948	0	0	1	27
290050	8	573	0	0	31	1666	0	0	8	606
310080	0	0	2	64	0	0	0	0	0	0
390050	51	1100	5	72	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	19	396	21	185	3	196	1	14	69	790
900060	0	0	0	0	0	0	0	0	0	0
900080	2	17	24	249	40	412	0	0	63	1679
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	8	24	0	0	0	0	3	57
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	1	348	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	1	278	0	0	0	0	5	266
401090	0	0	1	600	1	547	0	0	6	3253
405060	5	480	0	0	1	459	0	0	1	920
500050	0	0	0	0	0	0	1	62	0	0
500090	20	319	14	214	9	1443	1	9	24	394
9000000001	3	20	26	558	6	127	5	38	49	1595
9800000001	40	1046	89	992	169	2141	3	34	56	1082
9900000001	14	11	912	422	458	181	176	178	1345	693
Y-T-D Tot	253	20537	1168	8892	786	20871	191	443	1709	19032
MC YTD Tot*	72	13405	55	3817	32	10473	1	62	57	6646

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	12	1548	1	156	0	0	11	768	1	33
8457100015	0	0	5	707	1	93	3	601	0	0
100025	0	0	2	478	1	109	1	250	0	0
100035	4	1097	2	982	0	0	0	0	0	0
100045	11	515	28	2994	0	0	51	3340	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	3	415	0	0	2	1401	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	556	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	5	515	0	0
110030	35	2299	5	343	0	0	5	436	3	160
110050	0	0	1	64	0	0	2	431	0	0
110090	0	0	0	0	0	0	1	243	0	0
190030	2	43	0	0	0	0	28	329	0	0
190050	1	6	0	0	0	0	2	31	0	0
190070	14	493	3	426	0	0	0	0	0	0
190090	22	254	15	102	0	0	166	2699	0	0
911060	1	104	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	17	1753	0	0
991050	0	0	0	0	0	0	7	121	0	0
995090	0	0	3	243	0	0	15	714	0	0
8459100000	0	0	4	345	0	0	4	454	0	0
210080	1	43	3	130	0	0	19	1210	0	0
290040	0	0	5	240	0	0	3	319	1	26
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	18	112	0	0
290090	21	220	32	261	3	183	174	1127	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	2	162	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	5	40	0	0
400040	0	0	1	690	0	0	0	0	0	0
400050	0	0	0	0	0	0	9	222	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	14	438	0	0
510080	1	278	0	0	0	0	3	216	0	0
590030	6	326	0	0	8	218	6	222	0	0
610080	0	0	5	4744	0	0	4	127	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	238	0	0
690090	12	223	8	659	0	0	127	3044	0	0
700020	0	0	1	23	0	0	3	42	0	0
700080	2	50	1	42	0	0	55	341	3	80
8460110080	4	267	0	0	1	22	23	1270	4	119
190010	2	6	0	0	0	0	9	142	0	0
190050	2	773	2	295	0	0	1	57	2	1338
210080	28	5526	2	419	0	0	7	2266	0	0
290010	3	229	2	825	0	0	1	57	4	195
290030	2	170	0	0	0	0	4	66	0	0
290050	20	1395	0	0	0	0	102	2051	9	232
310080	2	749	2	72	0	0	16	508	0	0
390050	233	2036	5	712	30	173	29	434	6	41
400060	0	0	0	0	0	0	1	99	0	0
400080	41	615	322	4021	4	146	14	206	14	218
900060	0	0	1	18	0	0	2	66	0	0
900080	130	2630	83	893	2	12	133	2674	5	38
8461100060	0	0	0	0	0	0	0	0	0	0
100080	16	1537	53	1373	23	200	92	858	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	6	102	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	6	201	0	0
401050	5	855	2	115	0	0	0	0	0	0
401070	3	706	12	585	0	0	3	480	2	1008
401090	23	8765	29	13127	0	0	6	496	0	0
405060	3	210	23	960	0	0	4	153	0	0
500050	1	61	0	0	0	0	7	101	2	44
500090	169	2024	60	799	4	36	161	2054	190	1074
9000000001	76	4639	21	825	4	800	87	1855	20	193
9800000001	258	2659	246	5680	2	14	1344	9722	80	621
9900000001	3467	1544	1746	1026	329	482	8462	3222	234	201
Y-T-D Tot	4635	45476	2798	47157	412	2487	11322	54629	582	6168
NC YTD Tot*	144	15305	62	12687	3	224	190	14954	11	915

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - December 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	46	0	0	0	0	7	476	2	164
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	2	258	1	56
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	2	47	0	0
190050	0	0	0	0	0	0	0	0	1	7
190070	0	0	0	0	0	0	2	128	0	0
190090	7	78	0	0	1	170	4	25	2	26
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	2	28	0	0	0	0	1	10	1	18
995090	1	50	0	0	1	50	0	0	0	0
8459100000	0	0	2	663	0	0	1	245	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	42	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	2	71	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	5	161	0	0	0	0	2	76	3	104
610080	3	1406	0	0	1	125	3	3850	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	11	1	187	0	0	0	0	3	73
700020	0	0	0	0	0	0	3	87	0	0
700080	3	11	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	2	68
190010	1	43	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	3	430	0	0	4	1306	1	312	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	1	20	1	118	0	0	0	0	0	0
290050	7	924	8	391	4	155	30	1115	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	24	209	3	11	0	0	5	64	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	19	12	125	39	544	17	215	13	71
900060	0	0	0	0	0	0	0	0	0	0
900080	11	190	23	307	52	509	31	344	16	137
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	5	736
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	6	410	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1425	1	575	0	0	0	0
405060	0	0	0	0	14	476	1	10	0	0
500050	0	0	17	367	4	100	0	0	0	0
500090	8	114	16	168	1	18	42	750	7	41
9000000001	122	2026	27	1273	45	411	61	820	3	40
9800000001	47	1458	54	518	127	548	41	733	56	183
9900000001	1693	667	584	423	771	494	749	577	311	380
Y-T-D Tot	1964	8698	750	5977	1091	5728	1022	11267	432	2271
NC YTD Tot*	19	2489	43	1637	9	1530	25	5599	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	3	193	0	0	0	0	28	1837	1	176
8457100015	2	459	0	0	0	0	3	472	6	1006
100025	0	0	0	0	0	0	0	0	1	125
100035	5	2056	0	0	0	0	6	1854	3	816
100045	21	1436	0	0	6	367	4	262	9	688
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	14	22330	0	0
300090	0	0	0	0	0	0	3	3026	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	121	8660	0	0	2	173	10	802	11	1085
110050	5	410	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	55	932	0	0	4	64	1	15	3	18
190050	2	89	0	0	0	0	0	0	0	0
190070	7	349	0	0	0	0	5	404	3	89
190090	32	193	0	0	1	3	7	28	53	333
911060	0	0	0	0	0	0	0	0	0	0
911080	1	188	0	0	0	0	0	0	1	108
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	28	591	0	0	0	0	0	0	5	154
995090	16	468	0	0	2	1509	1	33	5	137
8459100000	0	0	0	0	2	208	2	136	5	3623
210080	4	427	0	0	0	0	9	813	16	1514
290040	0	0	0	0	0	0	1	165	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	13	851	0	0	1	10	2	174	5	382
290090	8	76	0	0	15	69	7	57	97	462
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	1	185	0	0	0	0	7	368	7	286
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	3	449	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	9	144
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	151
510080	0	0	0	0	0	0	0	0	2	84
590030	5	116	0	0	0	0	3	117	29	1012
610080	1	1178	0	0	5	580	1	100	7	1270
690050	0	0	0	0	0	0	24	534	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	4	298	0	0	1	14	6	62	11	445
700020	7	196	0	0	0	0	6	138	7	201
700080	13	395	0	0	213	1869	9	144	121	930
8460110080	0	0	0	0	0	0	2	55	18	569
190010	0	0	0	0	1	16	4	139	20	240
190050	2	393	0	0	0	0	3	946	2	405
210080	7	2097	0	0	0	0	7	1810	8	2141
290010	9	489	0	0	0	0	0	0	1	55
290030	2	69	0	0	0	0	17	552	0	0
290050	11	438	0	0	0	0	31	1419	3	547
310080	0	0	0	0	0	0	1	713	19	1742
390050	49	354	0	0	0	0	180	1182	51	401
400060	0	0	0	0	0	0	0	0	0	0
400080	15	240	14	3208	2	17	100	1187	106	1100
900060	0	0	0	0	0	0	0	0	14	660
900080	52	1089	0	0	27	263	59	1473	139	1780
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	24	0	0	1	50	11	725	27	1131
200010	0	0	0	0	0	0	7	160	1	157
200090	4	31	0	0	0	0	0	0	3	166
300060	0	0	0	0	0	0	0	[illegible]	0	0
300080	0	0	0	0	0	0	0	[illegible]	5	689
401050	3	877	8	466	0	0	8	[illegible]	3	672
401070	0	0	0	0	0	0	[illegible]	141	3	128
401090	0	0	6	4149	5	405	9	3535	0	0
405060	3	34	0	0	0	0	4	220	2	57
500050	4	336	0	0	0	0	0	0	0	0
500090	182	2457	1	34	0	0	75	1328	158	2218
9000000001	86	3155	0	0	9	98	46	467	286	3806
9800000001	149	2824	19	49	43	706	401	6912	714	7183
9900000001	3264	1286	9	5	781	309	2085	984	6341	5522
Y-T-D Tot	4208	46249	57	7910	1127	7232	3214	61171	8350	48341
NC YTD Tot*	220	28871	0	0	14	1230	77	29878	156	15339

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	365	8996
8462100030	Headers and upsetters, including cold headers	61	23979
100050	Forging or die stamping machines, and hammers, n.e.c.	299	27231
210080	Bending, folding, straight. or flat. mach., incl presses, NC	390	36209
290030	Press brakes, non-NC	158	3793
290040	Bending rolls, non-NC	102	3209
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1209	30498
310080	Shearing machines, NC	92	7790
390050	Shearing machines, non-NC	424	9685
410080	Punching or notching mach., incl. comb. punch & shear, NC	172	26135
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	881	21760
910060	Hydraulic presses, NC	84	4935
910090	Hydraulic presses, non-NC	581	27848
990030	Presses, n.e.c., NC	147	12730
990040	Presses, mechanical, non-NC	108	12548
990060	Presses, n.e.c., non-NC	1112	41104
8463100080	Draw benches for bars, tubes, profiles, wire or the like	242	6670
200080	Thread rolling machines	60	2726
300080	Machines for working wire	750	23651
900080	Metal forming machine tools, n.e.c.	1636	58520
9800000002	Used or rebuilt machine tools	3242	61461
9900000002	Machine tools valued at less than $2,500	14164	10991
	Y-T-D Forming Total	26279	462469
	NC Y-T-D Forming Total	885	87799
	Cutting and Forming Totals:		
	Y-T-D Total	82081	1062491
	NC Y-T-D Total*	2697	347111

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	722127
2000000000	Parts for working rubber or plastics - heading 8477	0	282599
2710003070	Quenching or cutting oils	0	18520
8428900010	Industrial robots for lifting, handling, loading or unload	360	6637
8431390090	Parts industrial robots, handling and loading - heading 8428	0	74510
8456100000	Laser, light or photon beam for working any material	933	46118
200000	Ultrasonic process for working any material	77	1915
8477106010	Injection molding mach., for rubber or oth. thermosetting	305	21848
106070	Injection molding mach., for thermoplastics	423	54100
200010	Extruders for rubber or other thermosetting materials	352	16584
200050	Extruders for processing thermoplastics	845	41527
300000	Blow molding machines	557	43754
400000	Vacuum-molding and other thermoforming machines	4713	13781
510010	Machines for molding or retreading pneumatic tires	1522	20511
510090	Machines for molding or otherwise forming inner tubes	449	29446
590000	Machines for molding or otherwise forming n.e.c.	1467	23546
800000	Machines for working rubber or plastics n.e.c.	5684	109676
8479899040	Industrial robots, n.e.c.	6146	58292
908040	Industrial robot parts	0	27524
8537100030	Numerical controls for controlling machine tools	1937	28709
9024100000	Machines and appliances for testing metals	0	75730
9031100000	Machines for balancing mechanical parts	0	28815
300000	Profile projectors	0	6956
9032810040	Industrial process control instr., hydraulic or pneumatic	805728	59130

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified

U.S. EXPORTS
Metal Forming Machine Tools, Machine tool totals and other Manufacturing Technology
January 90 - December 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	36	7	40	2	22	2	16	10	3253
8462100030	0	0	0	0	0	0	4	780	4	597
100050	1	67	0	0	2	90	6	616	31	3576
210080	24	1819	0	0	0	0	6	451	78	9944
290030	0	0	0	0	0	0	12	495	108	1968
290040	1	8	0	0	1	29	0	0	30	747
290050	21	615	1	90	0	0	19	271	337	5677
310080	3	179	0	0	0	0	0	0	20	2827
390050	7	106	0	0	15	238	26	437	106	2308
410080	2	64	0	0	0	0	3	339	34	4377
490050	16	106	2	960	16	194	56	720	233	3058
910060	1	10	0	0	0	0	1	14	8	1618
910090	6	237	4	113	4	1043	1	136	39	2135
990030	2	106	0	0	0	0	0	0	29	2202
990040	1	558	1	566	0	0	4	185	16	687
990060	14	483	1	22	0	0	38	1485	108	1637
8463100080	8	100	0	0	9	127	8	269	27	1819
200080	1	86	0	0	0	0	3	223	19	413
300080	11	353	5	98	3	158	82	1124	71	2046
900080	44	1639	11	421	1	35	14	1855	191	3096
9800000002	28	617	3	133	12	338	15	552	650	11495
9900000002	441	220	36	28	570	485	339	219	2060	1924
Y-T-D Tot	643	7409	71	2472	635	2758	639	10186	4209	67404
NC YTD Tot	32	2179	0	0	0	0	10	804	169	20968
C&F YTD	2431	23141	252	2977	1357	22873	1409	27754	10479	182970
C&F NC YTD*	52	9422	1	23	155	17527	59	6519	560	84392

Other Manufacturing Technology

1000000000	0	12960	0	1663	0	8914	0	12766	0	159015
2000000000	0	9748	0	1058	0	6000	0	6780	0	78103
2710003070	0	287	0	5	0	32	0	57	0	1141
8428900010	4	66	0	0	2	164	0	0	69	2099
8431390090	0	3480	0	89	0	560	0	2018	0	16494
8456100000	3	123	0	0	22	615	7	743	36	2991
200000	1	14	0	0	1	202	1	20	9	191
8477106010	1	38	0	0	1	82	116	2513	11	975
106070	7	406	9	1030	0	0	14	1732	128	22215
200010	4	102	0	0	0	0	7	176	231	8848
200050	27	2703	1	41	5	649	21	1775	140	3860
300000	44	964	0	0	2	215	8	2680	25	5820
400000	16	166	0	0	6	51	15	458	71	4120
510010	411	1421	0	0	175	748	15	534	39	2812
510090	7	209	0	0	2	842	0	0	0	0
590000	11	119	7	148	47	779	3	136	67	3517
800000	80	1547	3	44	61	1097	57	1307	1035	33334
8479899040	13	75	0	0	15	184	2	76	4135	32544
908040	0	95	0	16	0	54	0	4	0	13402
8537100030	19	202	3	51	12	172	5	141	102	1267
9024100000	0	1043	0	393	0	611	0	1419	0	9241
9031100000	0	297	0	0	0	225	0	354	0	9680
300000	0	27	0	0	0	0	0	258	0	451
9032810040	18617	1350	10739	683	17906	907	797	82	25319	2360

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - December 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	38	1704	38	240	46	344	9	42	0	0
8462100030	0	0	3	1742	0	0	0	0	2	514
100050	1	166	1	616	3	305	0	0	3	777
210080	10	2215	9	388	0	0	3	576	0	0
290030	0	0	1	19	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	9	95
290050	8	700	43	1285	12	1021	203	4400	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	19	832	3	55	0	0	0	0
410080	2	2624	19	2568	0	0	1	125	5	347
490050	56	1310	14	869	10	209	1	7	33	850
910060	9	105	4	199	0	0	0	0	0	0
910090	20	679	8	181	1	75	1	20	13	1017
990030	0	0	17	2016	0	0	0	0	6	1084
990040	8	1851	5	1157	0	0	0	0	0	0
990060	14	830	4	583	7	149	0	0	11	292
8463100080	4	355	10	268	4	116	0	0	0	0
200080	1	20	1	44	2	51	0	0	0	0
300080	14	819	34	1097	0	0	0	0	52	831
900080	10	1667	21	3088	55	907	0	0	26	2677
9800000002	121	1462	94	1894	83	3343	41	1748	46	615
9900000002	93	59	346	277	197	139	8	7	123	100
Y-T-D Tot	414	16732	692	19409	423	6715	267	6924	331	9212
NC YTD Tot	21	4945	49	5171	0	0	4	701	11	1432
C&F YTD	667	37269	1860	28302	1209	27585	458	7368	2040	28244
C&F NC YTD*	93	18349	104	8988	32	10473	5	763	68	8077

Other Manufacturing Technology

1000000000	0	8567	0	23783	0	4623	0	1956	0	15623
2000000000	0	5640	0	4895	0	5957	0	637	0	3470
2710003070	0	14	0	70	0	32	0	291	0	35
8428900010	20	247	37	893	0	0	0	0	15	179
8431390090	0	654	0	1633	0	677	0	200	0	407
8456100000	16	799	26	2190	2	126	0	0	65	2235
200000	0	0	5	75	0	0	0	0	5	85
8477106010	0	0	1	26	0	0	0	0	5	294
106070	0	0	3	146	0	0	1	242	5	394
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	11	834	43	2888	2	504	13	443
300000	0	0	6	1598	30	2123	0	0	3	17
400000	12	186	4	422	0	0	0	0	9	10
510010	0	0	6	122	26	1383	102	281	14	508
510090	3	620	9	796	4	916	2	17	2	47
590000	1	150	70	1070	49	592	0	0	46	1078
800000	692	14623	56	3159	99	3223	17	218	29	1123
8479899040	3	142	145	1931	3	19	0	0	120	2684
908040	0	43	0	719	0	5	0	0	0	378
8537100030	1	16	238	3415	7	77	0	0	86	1263
9024100000	0	3518	0	1712	0	280	0	423	0	2253
9031100000	0	94	0	160	0	2271	0	19	0	117
300000	0	0	0	603	0	0	0	0	0	197
9032810040	5497	387	31048	5195	23801	285	279	18	33783	2525

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - December 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	86	12	681	14	117	27	333	9	111
8462100030	24	12952	1	556	0	0	0	0	0	0
100050	29	3624	40	2538	2	155	27	1629	0	0
210080	10	1400	23	1424	9	327	59	3177	6	365
290030	3	55	0	0	0	0	12	334	1	7
290040	8	140	0	0	0	0	17	985	0	0
290050	46	955	67	2194	13	164	137	4423	9	329
310080	20	1573	3	700	0	0	19	942	18	813
390050	23	378	5	88	2	36	76	1745	1	49
410080	1	24	2	816	0	0	22	2234	35	4873
490050	68	1793	12	173	12	342	93	1779	6	55
910060	3	156	4	247	0	0	15	711	0	0
910090	6	144	20	4026	0	0	275	6950	7	436
990030	4	678	18	932	9	661	8	280	0	0
990040	3	661	1	45	0	0	8	236	4	252
990060	92	4923	46	7738	0	0	478	5833	29	328
8463100080	9	88	1	102	0	0	21	385	0	0
200080	0	0	0	13	0	0	7	711	1	132
300080	29	863	26	1221	6	98	91	1787	4	134
900080	95	4657	86	3591	36	2659	244	4145	63	1294
9800000002	77	2373	138	7418	4	69	1032	13382	7	435
9900000002	1419	676	284	187	7	6	2935	2693	226	160
Y-T-D Tot	1971	38198	789	34688	114	4635	5603	54694	426	9774
NC YTD Tot	38	3831	50	4118	18	989	123	7345	59	6051
C&F YTD	6606	83674	3587	81845	526	7122	16925	109323	1008	15942
C&F NC YTD*	182	19136	112	16806	21	1213	313	22298	70	6965

Other Manufacturing Technology

1000000000	0	66114	0	40888	0	5271	0	46687	0	9847
2000000000	0	11348	0	10244	0	2315	0	23688	0	4601
2710003070	0	345	0	85	0	41	0	468	0	129
8428900010	23	340	3	49	3	4	12	204	1	6
8431390090	0	1891	0	1553	0	102	0	6174	0	1172
8456100000	382	18525	11	302	23	654	17	392	25	1027
200000	3	42	0	0	0	0	3	60	1	13
8477106010	1	38	8	5087	0	0	124	9581	4	275
106070	11	2438	4	888	0	0	98	9743	4	782
200010	1	700	2	185	0	0	58	4489	0	0
200050	58	3213	53	837	7	200	116	3751	5	380
300000	9	4916	33	3444	0	0	135	8922	2	8
400000	411	981	38	1910	3	16	3981	3468	0	0
510010	38	595	4	521	29	518	91	1708	23	134
510090	8	316	20	2871	4	16	115	572	3	15
590000	369	3595	55	1696	11	30	227	2136	28	476
800000	138	3439	132	4267	126	1147	1837	14000	141	898
8479899040	140	1748	62	508	9	178	73	919	19	173
908040	0	2333	0	3317	0	18	0	208	0	126
8537100030	41	677	76	1028	10	126	27	923	14	156
9024100000	0	13069	0	12640	0	286	0	1710	0	526
9031100000	0	383	0	6922	0	21	0	2559	0	33
300000	0	2562	0	799	0	0	0	102	0	37
9032810040	23428	13248	28564	1486	111	12	13369	1557	96206	4982

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine tool totals and other Manufacturing Technology
January 90 - December 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	21	583	1	9	0	0	3	66	23	179
8462100030	0	0	1	438	2	200	0	0	0	0
100050	1	140	11	961	3	150	9	1810	6	350
210080	3	151	1	31	1	30	16	684	2	1600
290030	1	56	7	294	0	0	2	100	0	0
290040	4	180	0	0	0	0	0	0	0	0
290050	21	862	4	102	20	375	26	1051	13	364
310080	1	44	0	0	0	0	1	53	0	0
390050	4	69	0	0	2	286	11	167	20	87
410080	2	228	1	50	0	0	7	535	0	0
490050	19	698	3	1098	1	9	6	498	31	316
910060	0	0	3	97	1	35	0	0	2	98
910090	3	30	22	305	3	40	12	3061	11	1788
990030	1	323	20	321	0	0	5	596	2	57
990040	10	403	0	0	1	120	17	810	0	0
990060	3	70	0	0	5	111	70	2440	0	0
8463100080	0	0	28	357	7	160	1	426	18	162
200080	0	0	9	216	0	0	6	197	0	0
300080	6	142	31	930	6	61	5	137	10	481
900080	16	432	2	187	2	120	31	3280	6	298
9800000002	39	1774	21	436	2	51	59	967	21	456
9900000002	435	434	12	10	375	316	136	102	91	56
Y-T-D Tot	590	6618	177	5843	431	3066	423	16981	256	6290
NC YTD Tot	7	746	25	499	2	65	29	1869	6	1755
C&F YTD	2554	15316	927	11821	1522	8794	1445	28248	688	8562
C&F NC YTD*	26	3235	68	2136	11	1596	54	7468	12	2074

Other Manufacturing Technology

1000000000	0	14303	0	5153	0	7620	0	9825	0	4758
2000000000	0	3037	0	4399	0	1826	0	4445	0	3207
2710003070	0	341	0	42	0	22	0	1024	0	117
8428900010	18	77	0	0	4	333	0	0	0	0
8431390090	0	1932	0	43	0	220	0	811	0	40
8456100000	6	148	10	221	11	482	36	4363	1	15
200000	0	0	9	237	0	0	0	0	0	0
8477106010	6	450	0	0	0	0	0	0	0	0
106070	2	156	3	697	4	170	2	608	2	138
200010	0	0	0	0	0	0	6	836	0	0
200050	6	706	1	1643	0	0	13	566	1	1569
300000	0	0	20	1157	8	671	37	965	40	1045
400000	1	10	1	9	9	14	18	152	3	53
510010	4	72	28	784	2	3	8	188	0	0
510090	1	8	0	0	50	45	20	488	21	155
590000	20	78	18	185	40	450	21	816	12	157
800000	126	1430	13	660	32	370	41	825	10	333
8479899040	58	480	13	676	208	2016	13	223	0	0
908040	0	334	0	353	0	414	0	323	0	0
8537100030	62	881	10	103	17	244	9	145	12	130
9024100000	0	942	0	1641	0	1200	0	1786	0	45
9031100000	0	703	0	134	0	59	0	1328	0	23
300000	0	149	0	27	0	108	0	504	0	0
9032810040	27268	1938	14927	822	1902	199	17171	1497	137956	618

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine tool Totals and other Manufacturing Technology
January 90 - December 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	20	272	0	0	0	0	8	87	62	775
8462100030	0	0	0	0	0	0	17	3676	3	2525
100050	78	6926	0	0	2	80	14	861	29	1794
210080	23	1207	0	0	1	28	4	490	102	9897
290030	0	0	0	0	0	0	0	0	11	465
290040	0	0	0	0	2	70	0	0	28	876
290050	25	468	0	0	1	35	70	2069	111	3038
310080	2	93	0	0	2	380	0	0	3	186
390050	33	828	3	38	8	115	9	1062	47	630
410080	18	3876	0	0	0	0	8	932	10	2124
490050	57	2380	2	132	0	0	29	727	105	3477
910060	17	1288	0	0	0	0	3	95	13	263
910090	31	780	11	419	5	94	11	315	67	3822
990030	4	279	1	136	2	50	1	238	18	2769
990040	9	3005	0	0	0	0	6	729	14	1284
990060	55	2297	0	0	5	127	54	6435	78	4318
8463100080	33	695	0	0	5	250	25	301	24	692
200080	2	109	0	0	0	0	1	48	7	461
300080	60	1600	0	0	7	162	112	5378	85	4132
900080	281	8538	0	0	6	269	153	3624	242	10040
9800000002	141	1684	0	0	23	724	93	2374	492	7123
9900000002	1203	793	5	7	247	159	881	710	1695	1223
Y-T-D Tot	2092	37118	22	733	316	2543	1499	30151	3246	61914
NC YTD Tot	64	6743	1	136	5	459	16	1756	146	15238
C&F YTD	6300	83367	79	8643	1443	9776	4713	91321	11596	110255
C&F NC YTD*	284	35614	1	136	19	1689	93	31633	302	30578

Other Manufacturing Technology

1000000000	0	75586	0	3607	0	9997	0	70504	0	102096
2000000000	0	15360	0	930	0	4923	0	19966	0	50023
2710003070	0	66	0	0	0	82	0	225	0	13571
8428900010	53	585	0	0	0	0	45	761	51	631
8431390090	0	6355	0	907	0	1235	0	1566	0	24296
8456100000	52	2529	1	17	5	116	54	4286	122	3220
200000	16	375	0	0	0	0	8	226	15	374
8477106010	7	460	0	0	5	1055	1	80	14	894
106070	32	2763	19	3059	4	250	24	2717	47	3526
200010	4	63	0	0	2	53	3	217	34	916
200050	35	1037	36	4230	1	78	65	1420	147	7117
300000	26	4694	0	0	1	24	36	632	92	3859
400000	13	213	0	0	2	63	10	1133	90	346
510010	24	943	0	0	38	1609	30	799	415	4828
510090	20	19	3	84	0	0	6	117	149	21295
590000	112	1780	1	15	0	0	89	2517	163	2023
800000	205	5584	0	0	110	212	184	2991	460	13847
8479899040	98	1287	1	46	6	38	812	10343	198	2000
908040	0	1929	0	0	0	87	0	2508	0	857
8537100030	689	10334	0	0	1	8	225	3481	271	3869
9024100000	0	7605	0	522	0	246	0	6595	0	6022
9031100000	0	275	0	0	0	361	0	743	0	2053
300000	0	480	0	0	0	0	0	339	0	313
9032810040	179027	11324	381	29	5464	620	41465	2719	50703	4286

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	2	362	0	0	2	362
Czechoslovakia	14	460	16	166	30	626
Denmark	89	1180	83	481	172	1662
East Germany	0	0	2	359	2	359
Finland	233	220	80	1139	313	1359
Greece	328	922	59	4863	387	5785
Hungary	9	294	10	477	19	771
Iceland	0	0	0	0	0	0
Ireland	104	1880	109	1115	213	2994
Luxembourg	1	5	12	11	13	16
Norway	101	812	55	207	156	1020
Poland	27	952	13	1795	40	2747
Portugal	24	1256	76	2547	100	3803
Romania	250	21	41	136	291	157
Sweden	710	4047	200	3106	910	7154
Turkey	150	4822	60	440	210	5262
Yugoslavia	189	1362	8	290	197	1652
Oth Europe	1	53	14	39	15	92
TOTAL	15914	200395	7214	137710	23128	338105
NORTH AND CENTRAL AMERICA						
Bahamas	5	23	0	0	5	23
Barbados	1	10	9	146	10	156
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	378	1586	48	297	426	1884
Dominican Rep	51	463	204	2540	255	3003
El Salvador	42	231	15	179	57	409
Guatemala	14	35	24	235	38	269
Haiti	4	21	7	59	11	80
Honduras	121	452	38	555	159	1007
Jamaica	27	116	36	558	63	674
Panama	68	172	40	268	108	440
Trinidad	19	200	10	255	29	455
Oth N & C Am.	106	286	90	430	196	716
TOTAL	18459	173818	10337	127624	28796	301442
SOUTH AMERICA						
Argentina	88	1109	41	2057	129	3166
Bolivia	3	62	1	6	4	68
Chile	319	4005	280	3667	599	7672
Colombia	214	970	173	1990	387	2961
Ecuador	112	556	18	166	130	722
Paraguay	2	19	4	8	6	27
Peru	141	364	42	415	183	779
Uruguay	0	0	0	0	0	0
Oth South Am.	5	109	1	15	6	124
TOTAL	2781	31994	1515	21054	4296	53048
OCEANIA						
New Zealand	67	591	59	1207	126	1798
Oth Oceania	57	37	2	67	59	103
TOTAL	1912	16360	704	8682	2616	25042

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	2451	5235	398	2295	2849	7530
Iran	0	0	22	47	22	47
Iraq	7	537	60	5896	67	6433
Israel	333	3852	110	2626	443	6478
Jordan	9	8	3	32	12	40
Kuwait	4	61	8	293	12	354
Laos	0	0	1	8	1	8
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	10	50	0	0	10	50
Pakistan	47	489	9	108	56	597
Philippines	459	1142	274	6416	733	7558
Qatar	0	0	0	0	0	0
Saudi Arabia	256	738	129	5012	385	5750
Sri Lanka	9	59	0	0	9	59
Syria	1	5	1	6	2	11
United Arab Emr	63	215	49	251	112	466
Vietnam	0	0	0	0	0	0
Oth Asia	4	35	27	315	31	350
TOTAL	16146	171634	6358	161103	22504	332737
AFRICA						
Algeria	0	0	5	3613	5	3613
Botswana	0	0	0	0	0	0
Egypt	86	1989	49	1161	135	3150
Ethiopia	0	0	9	172	9	172
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	102	358	1	4	103	362
South Africa	362	3087	74	1193	436	4280
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	1	6	2	223
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	24	127	1	42	25	169
Oth Africa	15	43	10	8	25	51
TOTAL	590	5821	151	6296	741	12116

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: February 27, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	847	60639	59	5446
301050	Electro-discharge machines, n.e.c., NC	337	20834	27	1990
301070	Electro-discharge machines, n.e.c., non-NC	464	10787	42	1828
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2027	165264	137	13322
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	147	26601	18	2355
100035	Horiz. mach. ctrs., ATC	623	141574	41	9850
100045	Machining centers, n.e.c.	224	66463	18	3986
200010	Unit construction mach. (single station transfer), NC	24	2798	4	222
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	52	38705	1	62
300090	Multi-station transfer machines, non-NC	87	38893	5	1998
8458110010	Horizontal lathes, multiple spindle, NC	280	49572	14	2460
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2061	147846	76	6728
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	546	77476	18	2618
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	54	14755	6	1300
190030	Horizontal engine or toolroom lathes, non-NC	4350	44007	417	3442
190050	Automatic bar and/or chucking mach., single spindle, non-NC	927	15939	91	1133
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	136	13550	9	3097
190090	Horizontal lathes, n.e.c., non-NC	1735	16601	144	798
911060	Vertical turret lathes, multiple spindle, NC	22	3936	0	0
911080	Vertical turret lathes, n.e.c., NC	58	11750	2	169
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	95	12201	2	250
991050	Vertical turret lathes, non-NC	102	4481	5	237
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1138	24052	58	3394
8459100000	Way-type unit head machines	7	1928	1	106
210080	Other drilling machines, NC	324	22710	15	510
290040	Drilling machines, multiple spindle, non-NC	90	1985	16	116
290050	Drilling machines, radial, non-NC	487	3479	43	332
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	83	898	4	126
290090	Drilling machines, n.e.c., non-NC	458	14628	37	519
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2551	1	75
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	91	14114	6	901
310070	Boring-milling machines, n.e.c., NC	41	5292	3	2339
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	30	2276	2	78
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	6014	4	102
400040	Boring machines, vertical, NC	3	1471	0	0
400050	Boring machines, vertical, non-NC	70	2059	6	85
400070	Boring machines, n.e.c., NC	28	3553	0	0
400080	Boring machines, n.e.c., non-NC	288	7217	32	610
510080	Milling machines, knee type, NC	514	9369	5	80
590030	Milling machines, knee type, non-NC	3330	23887	255	1729
610080	Milling machines, excl. knee type, n.e.c., NC	504	24037	19	865
690050	Milling machines, profile, dup., or die sinking, non-NC	35	394	1	8
690070	Milling machines, bed type, non-NC	56	3746	4	98
690090	Milling machines, n.e.c., non-NC	873	20600	73	838
700020	Threading or tapping machines, n.e.c., NC	175	9537	12	604
700080	Threading or tapping machines, n.e.c., non-NC	187	5474	9	374
8460110080	Flat surface grinding mach., NC	138	14546	12	2246
190010	Flat surface grinding mach., recip.-table type, non-NC	1052	12074	29	184
190050	Flat surface grinding mach., n.e.c., non-NC	1972	21246	173	3149
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	537	97253	64	15843
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	495	19954	40	2036
290030	Grinding mach., internal cylindrical, non-NC	245	12373	31	821
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1124	44645	96	2553
310080	Sharpening machines (tool & cutter grinding), NC	245	6346	11	781
390050	Sharpening machines (tool & cutter grinding), non-NC	796	9580	41	518
400060	Honing or lapping machines, NC	34	4576	0	0
400080	Honing or lapping machines, non-NC	231	9134	8	958
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	56	3748	4	44
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1524	44642	117	5226
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	85	3347	2	373
200090	Shaping or slotting machines, non-NC	182	7534	24	799
300060	Broaching machines, NC	13	11534	0	0
300080	Broaching machines, non-NC	79	7313	1	24
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	119	10899	6	498
401040	Gear shapers	38	13645	8	2744
401060	Gear cutting machines, n.e.c.	173	591	4	8
405050	Gear grinding or finishing for bevel gears	75	2585	15	905
405070	Gear grinding or finishing machines, n.e.c.	121	29076	20	2459
500050	Sawing or cutting-off machines, NC	102	6214	3	176
500090	Sawing or cutting-off machines, non-NC	1949	32183	156	2001
9000000001	Metal cutting machine tools, n.e.c.	367	18951	17	935
9800000001	Used or rebuilt machine tools	7713	33795	418	3147
9900000001	Machine tools valued at less than $2,500	942917	92336	79729	6813
	Cutting Total			82771	132417
	Y-T-D Cutting Total	986513	1766635		
	NC Y-T-D Cutting Total	10325	1086646		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	127
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	26	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	62	0	0	0	0
300090	0	0	0	0	1	758	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	186	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	24	165	0	0	0	0	0	0
190050	0	0	4	79	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	14	100	0	0	7	55	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	10	0	0	0	0
991050	0	0	0	0	1	2	3	223	0	0
995090	0	0	15	79	2	7	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	9	1	66
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	1650
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	82
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	60	28	547	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	6
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460120080	0	0	0	0	0	0	0	0	1	58
190010	0	0	0	0	0	0	0	0	3	29
190050	0	0	0	0	6	24	1	5	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	9	98	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	2	0	0	10	29	0	0	0	0
310080	0	0	0	0	0	0	0	0	3	13
390050	0	0	0	0	2	7	3	126	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	9	38	6	1543
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	80
200090	0	0	0	0	1	3	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	75
500050	0	0	0	0	0	0	0	0	2	14
500090	0	0	0	0	23	286	3	144	1	7
9000000001	0	0	0	0	0	0	1	4	0	0
9800000001	0	0	0	0	28	96	0	0	1	4
9900000001	126	14	2	4	63	109	136	50	2534	456
Month Tot	127	15	59	427	152	1576	194	1386	2563	4212
Y-T-D Tot	195	1685	2065	12704	1690	21522	1976	23972	34014	55016
NC YTD Tot	4	122	7	573	50	5273	83	9335	136	18599

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	30	2840	0	0	0	0	0	0	0	0
301050	11	880	0	0	0	0	0	0	0	0
301070	1	4	0	0	0	0	0	0	0	0
8457100015	82	8497	2	105	8	466	0	0	0	0
100025	9	1614	0	0	0	0	0	0	0	0
100035	40	9745	0	0	0	0	0	0	0	0
100045	2	1153	0	0	0	0	0	0	0	0
200010	0	0	4	222	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	210	0	0	0	0	0	0	0	0
8458110010	13	2275	0	0	0	0	0	0	0	0
110030	43	4731	3	164	0	0	0	0	0	0
110050	15	2380	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	12	2	40	25	334	0	0	0	0
190050	2	59	0	0	0	0	0	0	0	0
190070	2	147	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	241	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	12	0	0
995090	3	2191	1	54	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	8	348	0	0	0	0	1	12	0	0
290040	15	113	0	0	0	0	0	0	0	0
290050	1	47	0	0	0	0	8	45	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	3	20	1	100	0	0	8	70	21	60
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	1	47	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	11	140	0	0	0	0	62	716	0	0
610080	3	758	1	12	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	2	211	0	0	16	40	1	13	3	122
700020	12	604	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	1	13
8460110080	1	100	0	0	0	0	1	18	0	0
190010	2	10	0	0	20	109	0	0	0	0
190050	3	122	0	0	0	0	0	0	0	0
210080	40	10886	0	0	0	0	0	0	0	0
290010	9	670	0	0	0	0	0	0	0	0
290030	2	166	0	0	0	0	0	0	1	452
290050	4	196	0	0	0	0	1	64	1	17
310080	0	0	0	0	0	0	0	0	0	0
390050	4	46	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	284	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	61	2338	0	0	0	0	2	252	1	16
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	151	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	1	189	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	5	22	0	0	0	0	0	0
500050	1	162	0	0	0	0	0	0	0	0
500090	20	350	0	0	0	0	4	33	0	0
9000000001	8	808	0	0	0	0	0	0	0	0
9800000001	167	587	0	0	0	0	0	0	1	3
9900000001	6393	819	3695	337	48	9	0	0	254	131
Month Tot	7038	57202	3714	1057	117	957	89	1236	283	813
Y-T-D Tot	67254	852567	15463	18129	1165	18677	2109	25535	3152	16733
MC YTD Tot	6008	720889	136	9553	170	9140	95	2825	18	5753

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	13	2041	1	7	0	0	0	0	15	559
301050	13	890	0	0	0	0	3	220	0	0
301070	16	1506	15	217	0	0	4	92	6	9
8457100015	0	0	6	338	19	1556	8	1823	10	410
100025	0	0	7	688	0	0	0	0	2	53
100035	0	0	1	105	0	0	0	0	0	0
100045	0	0	0	0	1	556	3	1813	11	437
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	386	0	0	0	0	1	645	0	0
8458110010	0	0	0	0	0	0	1	185	0	0
110030	1	163	7	457	9	670	0	0	13	544
110050	0	0	0	0	0	0	0	0	1	52
110090	0	0	0	0	0	0	2	419	4	880
190030	0	0	88	468	28	468	0	0	248	1956
190050	4	633	31	186	0	0	0	0	50	176
190070	2	660	0	0	0	0	3	2283	2	7
190090	0	0	34	271	8	121	0	0	81	252
911060	0	0	0	0	0	0	0	0	0	0
911080	2	169	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	11	299	2	679	24	84
8459100000	0	0	0	0	1	106	0	0	0	0
210080	0	0	0	0	0	0	1	132	5	18
290040	1	3	0	0	0	0	0	0	0	0
290050	0	0	16	81	0	0	1	5	17	154
290070	0	0	0	0	0	0	4	126	0	0
290090	2	194	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	1	75
310040	0	0	0	0	0	0	2	580	4	321
310070	0	0	0	0	1	673	1	16	0	0
390040	2	78	0	0	0	0	0	0	0	0
390050	0	0	2	38	0	0	0	0	1	18
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	3	0	0
510080	0	0	2	5	2	70	1	6	0	0
590030	1	5	133	528	1	36	11	147	36	157
610080	0	0	5	37	0	0	1	7	9	51
690050	0	0	0	0	0	0	0	0	1	8
690070	0	0	3	52	0	0	0	0	0	0
690090	2	225	46	214	0	0	2	7	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	3	108	0	0	0	0	3	245	0	0
8460110080	0	0	0	0	2	15	7	2054	0	0
190010	0	0	3	24	0	0	0	0	1	14
190050	1	270	153	888	7	1804	2	36	0	0
210080	5	1138	0	0	1	101	18	3718	0	0
290010	12	1124	8	73	0	0	2	72	0	0
290030	0	0	1	5	0	0	0	0	27	198
290050	2	118	51	475	1	29	14	1392	11	232
310080	0	0	0	0	0	0	7	668	1	101
390050	5	163	0	0	19	102	5	38	3	36
400060	0	0	0	0	0	0	0	0	0	0
400080	1	352	0	0	3	50	1	272	0	0
900060	0	0	0	0	0	0	0	0	4	44
900080	6	489	2	13	0	0	12	389	18	149
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	293	0	0
200090	19	355	0	0	1	290	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	24	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	6	5	492	0	0
401040	0	0	0	0	0	0	7	2554	0	0
401060	0	0	0	0	0	0	4	8	0	0
405050	0	0	0	0	0	0	15	905	0	0
405070	0	0	0	0	3	146	11	2215	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	52	244	9	41	30	845	14	50
9000000001	1	82	6	21	0	0	1	20	0	0
9800000001	6	14	53	64	41	2084	115	160	6	136
9900000001	20	3	51499	3794	64	23	936	320	13959	743
Month Tot	142	11168	52225	9290	233	9245	1250	25912	14585	7921
Y-T-D Tot	2218	95371	719896	126216	5339	104993	13329	313040	116648	80476
NC YTD Tot	387	35865	832	28432	760	65312	967	149542	672	25433

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	376	28298	23	1609
8462100030	Headers and upsetters, including cold headers	161	15377	6	780
100050	Forging or die stamping machines, and hammers, n.e.c.	827	49098	74	6410
210080	Bending, folding, straight. or flat. mach., incl presses, NC	530	38505	21	1082
290030	Press brakes, non-NC	313	9221	25	900
290040	Bending rolls, non-NC	93	2974	2	25
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1233	43272	87	4608
310080	Shearing machines, NC	55	5214	2	847
390050	Shearing machines, non-NC	588	16530	38	626
410080	Punching or notching mach., incl. comb. punch & shear, NC	318	38986	6	1352
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	682	15755	35	402
910060	Hydraulic presses, NC	22	20256	2	337
910090	Hydraulic presses, non-NC	2458	20449	84	3708
990030	Presses, n.e.c., NC	51	4820	0	0
990035	Mechanical transfer presses, non-NC	16	35884	2	11581
990045	Mechanical presses, n.e.c., non-NC	185	5481	24	153
990060	Presses, n.e.c., non-NC	795	37117	59	3241
8463100080	Draw benches for bars, tubes, profiles, wire or the like	159	9810	35	2243
200080	Thread rolling machines	91	5690	9	192
300080	Machines for working wire	1397	71322	95	7700
900080	Metal forming machine tools, n.e.c.	778	33316	105	2604
9800000002	Used or rebuilt machine tools	1545	25307	167	4764
9900000002	Machine tools valued at less than $2,500	20268	5766	1523	523
	Forming Total			2424	55687
	Y-T-D Forming Total	32941	538448		
	NC Y-T-D Forming Total	976	107781		
	Cutting and Forming Totals:				
	Monthly Total			85195	188103
	Y-T-D Total	1019454	2305083		
	NC Y-T-D Total	11301	1194427		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	564515	0	51198
2000000000	Parts for working rubber or plastics - heading 8477	0	328098	0	31340
2710003070	Quenching or cutting oils	0	339	0	20
8428900010	Industrial robots for lifting, handling, loading or unload	2113	37810	341	3002
8431390080	Parts industrial robots, handling and loading - heading 8428	0	100220	0	13498
8456101010	Laser, light or photon beam for working metal, NC	167	30702	9	1457
101020	Laser, light or photon beam for working metal, non-NC	78	4408	3	377
105000	Laser, light or photon beam for other materials	563	9066	16	234
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158	0	0
205000	Ultrasonic processes for working other materials	329	256	270	27
8477103000	Injection molding mach., for manufacturing shoes	147	3389	1	183
106010	Injection molding mach., for rubber or oth. thermosetting	839	69739	68	5346
106050	Injection molding mach., for thermoplastics	2482	223604	168	16456
200010	Extruders for rubber or other thermosetting materials	217	16326	21	2054
200050	Extruders for processing thermoplastics	973	62728	45	3558
300000	Blow molding machines	339	52191	15	6502
400000	Vacuum-molding and other thermoforming machines	292	9921	66	745
510010	Machines for molding or retreading pneumatic tires	653	57022	115	4174
510090	Machines for molding or otherwise forming inner tubes	271	14450	5	1113
590000	Machines for molding or otherwise forming n.e.c.	1034	50598	98	3484
800000	Machines for working rubber or plastics n.e.c.	15508	121293	769	11665
8479899040	Industrial robots, n.e.c.	14363	83416	356	11461
908040	Industrial robot parts	0	36999	0	4637
8537100030	Numerical controls for controlling machine tools	15054	45547	4648	2836
9024100000	Machines and appliances for testing metals	0	13077	0	1151
9031100000	Machines for balancing mechanical parts	0	13536	0	1601
300000	Profile projectors	0	6660	0	578
9032810020	Industrial process control instr., hydraulic	155225	2424	10016	135
810060	Industrial process control instr., pneumatic	225634	4803	479	108

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	449	0	0	1	214
8462100030	0	0	0	0	0	0	0	0	2	122
100050	0	0	0	0	18	265	0	0	0	0
210080	1	94	0	0	3	290	0	0	8	143
290030	8	342	0	0	14	499	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	48	466	0	0	15	344
310080	0	0	0	0	0	0	0	0	1	666
390050	10	197	0	0	1	45	0	0	12	86
410080	0	0	0	0	1	3	1	248	0	0
490050	0	0	1	3	2	12	0	0	11	68
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	83	0	0	17	19
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	2	51
990060	0	0	0	0	28	1210	0	0	7	161
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	43	1853	0	0	3	1659
900080	0	0	0	0	11	164	0	0	0	0
9800000002	3	116	0	0	72	359	1	35	39	375
9900000002	0	0	0	0	10	11	0	0	0	0
Month Tot	22	749	1	3	259	5709	2	283	118	3908
Y-T-D Tot	547	20764	14	205	2259	68393	337	3667	1890	39547
NC YTD Tot	40	3458	0	0	60	7330	5	421	71	2919
C&F Month	149	764	60	430	411	7285	196	1669	2681	8119
C&F Y-T-D	742	22450	2079	12909	3949	89915	2313	27638	35904	94563
C&F NC YTD	44	3580	7	573	110	12603	88	9756	207	21518

Other Manufacturing Technology

1000000000	0	219	0	200	0	8853	0	1008	0	1459
2000000000	0	68	0	9	0	6205	0	1053	0	1466
2710003070	0	7	0	0	0	4	0	0	0	0
8428900010	0	0	0	0	156	288	0	0	0	0
8431390080	0	0	0	7	0	2081	0	77	0	31
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	15	233	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	5	615	6	638	10	295
106050	0	0	0	0	30	4220	1	5	11	2169
200010	0	0	0	0	2	74	0	0	0	0
200050	0	0	0	0	5	248	0	0	2	3
300000	0	0	0	0	0	0	3	3082	2	713
400000	0	0	0	0	1	13	0	0	0	0
510010	0	0	0	0	23	1414	1	38	17	43
510090	0	0	0	0	1	128	0	0	1	10
590000	0	0	0	0	7	947	46	424	4	179
800000	14	45	0	0	107	1407	1	60	32	296
8479899040	0	0	0	0	3	176	1	36	0	0
908040	0	0	0	0	0	23	0	14	0	21
8537100030	0	0	0	0	0	0	0	0	4003	111
9024100000	0	0	0	0	0	72	0	0	0	158
9031100000	0	0	0	0	0	0	0	14	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	46	27	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	12	7	0	0	1	251	0	0	0	0
8462100030	2	318	0	0	0	0	0	0	0	0
100050	12	3857	0	0	0	0	0	0	2	2
210080	7	342	0	0	0	0	0	0	0	0
290030	1	13	0	0	2	46	0	0	0	0
290040	1	9	0	0	0	0	0	0	0	0
290050	5	424	0	0	0	0	0	0	9	662
310080	1	181	0	0	0	0	0	0	0	0
390050	5	152	0	0	1	14	0	0	0	0
410080	2	485	0	0	0	0	0	0	1	391
490050	0	0	0	0	0	0	17	268	0	0
910060	0	0	0	0	0	0	0	0	1	253
910090	27	1405	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	2	11581	0	0	0	0	0	0	0	0
990045	2	34	0	0	0	0	0	0	0	0
990060	3	371	1	105	0	0	0	0	2	74
8463100080	12	1848	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	2	61	0	0
300080	36	2730	0	0	0	0	0	0	0	0
900080	34	967	0	0	0	0	2	10	1	65
9800000002	4	204	0	0	0	0	0	0	0	0
9900000002	123	102	0	0	0	0	39	35	1	2
Month Tot	291	25030	1	105	4	311	60	374	17	1448
Y-T-D Tot	4447	215936	29	744	88	486	526	4355	623	32939
NC YTD Tot	414	34713	0	0	1	5	2	318	16	25487
C&F Month	7329	82231	3715	1162	121	1268	149	1611	300	2262
C&F Y-T-D	71701	1068504	15492	18873	1253	19163	2635	29890	3775	49672
C&F NC YTD	6422	755602	136	9553	171	9145	97	3142	34	31241

Other Manufacturing Technology

1000000000	0	13465	0	53	0	486	0	256	0	1359
2000000000	0	3534	0	72	0	72	0	17	0	34
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	132	1993	0	0	0	0	0	0	17	165
8431390080	0	6962	0	10	0	6	0	0	0	34
8456101010	8	1432	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	2	10
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	270	27	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	20	1990	1	88	0	0	0	0	1	9
106050	58	5713	3	102	1	80	0	0	0	0
200010	8	661	0	0	0	0	0	0	0	0
200050	4	51	0	0	0	0	0	0	0	0
300000	5	1221	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	32	318	0	0	0	0	0	0	0	0
510090	1	932	1	36	0	0	0	0	0	0
590000	2	86	0	0	0	0	0	0	0	0
800000	31	744	0	0	0	0	1	6	0	0
8479899040	216	7740	0	0	2	83	0	0	12	343
908040	0	2186	0	0	0	0	0	0	0	76
8537100030	586	2590	0	0	0	0	0	0	0	0
9024100000	0	86	0	0	0	0	0	0	0	461
9031100000	0	1566	0	5	0	0	0	0	0	0
300000	0	228	0	0	0	0	0	0	0	0
9032810020	0	0	850	4	0	0	0	0	0	0
810060	10	3	0	0	0	0	0	0	10	2

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	539	0	0	0	0	1	149	0	0
8462100030	0	0	1	4	0	0	1	337	0	0
100050	0	0	3	53	16	119	6	1543	17	571
210080	0	0	1	18	1	195	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	16	0	0	0	0	0	0
290050	0	0	0	0	6	2528	3	139	1	45
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	8	124
410080	1	225	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	13	3	39
910060	0	0	0	0	0	0	0	0	1	85
910090	0	0	32	4	1	2	4	2155	1	40
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	20	69	0	0	0	0
990060	2	770	6	44	1	32	6	373	3	102
8463100080	0	0	0	0	0	0	23	395	0	0
200080	1	52	6	79	0	0	0	0	0	0
300080	1	460	4	75	2	8	6	916	0	0
900080	38	410	1	7	10	67	6	555	2	359
9800000002	27	328	2	7	3	721	5	2374	11	244
9900000002	8	17	678	203	43	12	29	38	592	102
Month Tot	80	2802	735	508	103	3753	92	8993	639	1711
Y-T-D Tot	1982	25925	7429	8915	1005	18186	2747	81025	9018	17362
NC YTD Tot	29	4891	9	968	27	878	255	21159	47	5233
C&F Month	222	13970	52960	9799	336	12998	1342	34905	15224	9632
C&F Y-T-D	4200	121296	727325	135130	6344	123178	16076	394064	125666	97838
C&F NC YTD	416	40756	841	29400	787	66190	1222	170701	719	30667

Other Manufacturing Technology

1000000000	0	4558	0	1220	0	3477	0	12029	0	2559
2000000000	0	304	0	406	0	713	0	16306	0	1081
2710003070	0	0	0	0	0	0	0	10	0	0
8428900010	3	2	0	0	32	419	1	135	0	0
8431390080	0	325	0	227	0	2391	0	615	0	731
8456101010	0	0	0	0	0	0	1	25	0	0
101020	0	0	0	0	0	0	1	367	0	0
105000	1	2	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	1	183	0	0	0	0	0	0
106010	5	798	2	70	0	0	13	532	5	310
106050	5	611	5	187	5	465	26	1864	23	1042
200010	2	208	5	116	1	49	3	945	0	0
200050	0	0	14	397	2	278	15	2451	3	130
300000	0	0	4	27	0	0	1	1458	0	0
400000	0	0	0	0	58	227	7	505	0	0
510010	0	0	0	0	9	64	12	2269	21	27
510090	0	0	1	7	0	0	0	0	0	0
590000	0	0	24	49	0	0	13	1178	2	623
800000	3	1033	22	252	7	127	507	6712	44	982
8479899040	0	0	0	0	6	2119	7	611	109	352
908040	0	155	0	0	0	631	0	1343	0	187
8537100030	5	57	50	56	0	0	4	21	0	0
9024100000	0	21	0	4	0	202	0	97	0	51
9031100000	0	0	0	0	0	13	0	3	0	0
300000	0	0	0	0	0	228	0	122	0	0
9032810020	538	15	0	0	750	4	0	0	7878	112
810060	0	0	0	0	25	12	7	2	361	62

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	54	1639	5	460	59	2099
Bulgaria	3	9	0	0	3	9
Czechoslovakia	8	99	0	0	8	99
Denmark	36	248	13	219	49	466
East Germany	0	0	0	0	0	0
Finland	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Ireland	11	5	0	0	11	5
Luxembourg	0	0	0	0	0	0
Netherlands	106	220	49	213	155	432
Norway	0	0	0	0	0	0
Poland	16	226	0	0	16	226
Portugal	16	79	0	0	16	79
Romania	1	14	0	0	1	14
USSR	1	20	0	0	1	20
Yugoslavia	92	1226	11	553	103	1780
Oth Europe	3	36	6	18	9	54
TOTAL	5228	57806	578	23772	5806	81578
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Oth N & C Am.	0	0	1	2	1	2
TOTAL	152	1576	260	5711	412	7287
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	59	427	1	3	60	430
OCEANIA						
Australia	43	239	0	0	43	239
New Zealand	2	10	0	0	2	10
Oth Oceania	0	0	0	0	0	0
TOTAL	45	249	0	0	45	249

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	14140	2432	356	83	14496	2515
Hong Kong	5	63	5	42	10	104
India	16	80	91	9	107	89
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	11	437	2	16	13	453
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	1	34	1	34
Thailand	21	842	0	0	21	842
Oth Asia	0	0	0	0	0	0
TOTAL	77287	72359	1486	26138	78773	98497
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	99	63	99	63
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	99	63	99	63

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

RELEASED: February 27, 1991

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	847	60639
301050	Electro-discharge machines, n.e.c., NC	337	20834
301070	Electro-discharge machines, n.e.c., non-NC	464	10787
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2027	165264
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	147	26601
100035	Horiz. mach. ctrs., ATC	623	141574
100045	Machining centers, n.e.c.	224	66463
200010	Unit construction mach. (single station transfer), NC	24	2798
200090	Unit construction mach. (single station transfer), non-NC	2	517
300010	Multi-station transfer machines, NC	52	38705
300090	Multi-station transfer machines, non-NC	87	38893
8458110010	Horizontal lathes, multiple spindle, NC	280	49572
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2061	147846
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	546	77476
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	54	14755
190030	Horizontal engine or toolroom lathes, non-NC	4350	44007
190050	Automatic bar and/or chucking mach., single spindle, non-NC	927	15939
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	136	13550
190090	Horizontal lathes, n.e.c., non-NC	1735	16601
911060	Vertical turret lathes, multiple spindle, NC	22	3936
911080	Vertical turret lathes, n.e.c., NC	58	11750
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	95	12201
991050	Vertical turret lathes, non-NC	102	4481
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1138	24052
8459100000	Way-type unit head machines	7	1928
210080	Other drilling machines, NC	324	22710
290040	Drilling machines, multiple spindle, non-NC	90	1985
290050	Drilling machines, radial, non-NC	487	3479
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	83	898
290090	Drilling machines, n.e.c., non-NC	458	14628
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2551
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	91	14114
310070	Boring-milling machines, n.e.c., NC	41	5292
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	30	2276
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	6014
400040	Boring machines, vertical, NC	3	1471
400050	Boring machines, vertical, non-NC	70	2059
400070	Boring machines, n.e.c., NC	28	3553
400080	Boring machines, n.e.c., non-NC	288	7217
510080	Milling machines, knee type, NC	514	9369
590030	Milling machines, knee type, non-NC	3330	23887
610080	Milling machines, excl. knee type, n.e.c., NC	504	24037
690050	Milling machines, profile, dup., or die sinking, non-NC	35	394
690070	Milling machines, bed type, non-NC	56	3746
690090	Milling machines, n.e.c., non-NC	873	20600
700020	Threading or tapping machines, n.e.c., NC	175	9537
700080	Threading or tapping machines, n.e.c., non-NC	187	5474
8460110080	Flat surface grinding mach., NC	138	14546
190010	Flat surface grinding mach., recip.-table type, non-NC	1052	12074
190050	Flat surface grinding mach., n.e.c., non-NC	1972	21246
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	537	97253
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	495	19954
290030	Grinding mach., internal cylindrical, non-NC	245	12373
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1124	44645
310080	Sharpening machines (tool & cutter grinding), NC	245	6346
390050	Sharpening machines (tool & cutter grinding), non-NC	796	9580
400060	Honing or lapping machines, NC	34	4576
400080	Honing or lapping machines, non-NC	231	9134
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	56	3748
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1524	44642
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	8	53
200010	Shaping or slotting machines, NC	85	3347
200090	Shaping or slotting machines, non-NC	182	7534
300060	Broaching machines, NC	13	11534
300080	Broaching machines, non-NC	79	7313
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	119	10899
401040	Gear shapers	38	13645
401060	Gear cutting machines, n.e.c.	173	591
405050	Gear grinding or finishing for bevel gears	75	2585
405070	Gear grinding or finishing machines, n.e.c.	121	29076
500050	Sawing or cutting-off machines, NC	102	6214
500090	Sawing or cutting-off machines, non-NC	1949	32183
9000000001	Metal cutting machine tools, n.e.c.	367	18951
9800000001	Used or rebuilt machine tools	7713	33795
9900000001	Machine tools valued at less than $2,500	942917	92336
	Y-T-D Cutting Total	986513	1766635
	NC Y-T-D Cutting Total	10325	1086646

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	14	461	0	0
8457100015	0	0	0	0	0	0	6	633	2	127
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	12	252
100045	0	0	5	117	13	1166	1	260	15	2769
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	2	140	0	0	13	1976
300090	0	0	0	0	9	4648	0	0	7	3580
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	5	361	0	0
110050	0	0	0	0	0	0	28	3124	2	214
110090	0	0	0	0	1	15	0	0	4	2525
190030	0	0	682	4666	58	876	5	170	0	0
190050	0	0	51	563	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	3	581
190090	0	0	796	4401	9	29	13	193	1	3
911060	0	0	0	0	1	250	0	0	0	0
911080	0	0	0	0	3	151	17	2374	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	11	0	0	8	2124
991050	0	0	0	0	1	2	13	852	20	36
995090	0	0	257	1491	49	241	16	648	9	222
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	5	614	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	52	477	0	0	0	0	15	241
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	15	707	24	4841	10	2365
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	7	834	0	0	5	928
310070	0	0	0	0	0	0	1	168	1	1650
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	2	21	0	0	27	468
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	43	652
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	54	680	82	1518	77	879
510080	0	0	0	0	0	0	0	0	1	13
590030	1	3	0	0	2	13	1	3	1	6
610080	0	0	0	0	6	1549	2	70	3	1252
690050	0	0	0	0	0	0	0	0	1	42
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	5	81	13	794	59	6852
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	6	53	2	6	4	70
8460110080	3	119	0	0	2	55	0	0	15	1552
190010	0	0	0	0	0	0	0	0	27	481
190050	0	0	0	0	51	290	2	13	5	153
210080	0	0	0	0	1	241	1	39	9	780
290010	0	0	0	0	159	1169	0	0	2	127
290030	0	0	0	0	1	2	0	0	2	533
290050	3	7	0	0	58	437	3	90	34	775
310080	0	0	0	0	4	9	7	45	6	38
390050	0	0	0	0	45	180	7	307	7	97
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	12	131	0	0	4	43
900060	1	3	0	0	2	7	0	0	9	184
900080	1	3	0	0	31	489	50	206	179	9222
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	1	80
200090	3	8	0	0	47	135	1	67	5	189
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	230
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	3	10	0	0	0	0
405050	0	0	0	0	1	25	0	0	0	0
405070	0	0	0	0	2	76	1	129	2	151
500050	0	0	0	0	1	232	0	0	5	50
500090	5	20	72	216	272	3667	16	472	252	1437
9000000001	0	0	0	0	13	443	79	2480	25	137
9800000001	11	1443	2	29	174	1336	303	417	29	352
9900000001	161	35	145	115	559	468	1247	1250	33019	6282
Y T-D Tot	195	1685	2065	12704	1690	21522	1976	23972	34014	55016
M. YTD Tot	4	122	7	573	50	5273	83	9335	136	18599

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	575	45304	0	0	0	0	0	0	0	0
301050	174	12119	0	0	0	0	2	50	1	2
301070	16	743	0	0	0	0	1	70	102	232
8457100015	1153	110931	55	3093	150	8271	9	455	0	0
100025	97	17935	0	0	0	0	0	0	0	0
100035	498	121048	0	0	0	0	2	270	0	0
100045	19	6029	3	187	1	83	0	0	4	1314
200010	0	0	23	2717	0	0	0	0	0	0
200090	2	517	0	0	0	0	0	0	0	0
300010	28	34289	3	179	0	0	0	0	0	0
300090	12	5231	0	0	0	0	0	0	0	0
8458110010	228	37377	0	0	0	0	0	0	0	0
110030	1671	128882	43	2552	0	0	0	0	0	0
110050	465	67786	1	64	0	0	0	0	0	0
110090	22	4218	0	0	0	0	5	725	0	0
190030	32	625	122	1410	308	3888	85	1287	0	0
190050	30	1876	0	0	0	0	0	0	0	0
190070	9	1748	0	0	0	0	0	0	0	0
190090	45	3183	12	295	0	0	1	124	0	0
911060	10	2121	1	159	0	0	0	0	1	201
911080	27	7714	2	215	0	0	0	0	1	581
915050	0	0	0	0	0	0	0	0	0	0
915070	52	7628	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	1	12	0	0
995090	40	8091	77	4375	0	0	37	215	2	18
8459100000	1	8	0	0	0	0	1	1413	0	0
210080	266	17828	2	170	0	0	1	12	2	28
290040	41	1057	0	0	0	0	0	0	0	0
290050	5	133	0	0	0	0	21	321	38	154
290070	12	287	0	0	0	0	35	175	10	38
290090	61	2783	1	100	0	0	198	1729	48	173
310010	3	859	0	0	0	0	1	104	0	0
310040	2	594	0	0	0	0	1	247	0	0
310070	7	320	0	0	0	0	1	214	0	0
390040	1	198	0	0	0	0	2	180	2	17
390050	1	47	0	0	0	0	4	544	0	0
400040	2	1412	0	0	0	0	0	0	0	0
400050	5	960	0	0	0	0	0	0	0	0
400070	5	1638	0	0	0	0	0	0	0	0
400080	9	1647	0	0	0	0	0	0	0	0
510080	4	791	0	0	0	0	68	532	1	76
590030	59	1390	0	0	0	0	1477	11834	2	106
610080	48	11825	1	12	19	785	2	128	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	17	589	0	0	0	0	0	0	5	772
690090	35	2769	0	0	18	47	24	215	5	163
700020	171	9089	0	0	0	0	1	59	0	0
700080	76	2798	0	0	0	0	2	120	3	72
8460110080	32	3365	0	0	0	0	2	30	3	1589
190010	93	2822	0	0	405	4984	0	0	0	0
190050	61	2441	1	22	14	334	7	508	4	10
210080	279	54540	0	0	0	0	0	0	5	1963
290010	66	4810	1	25	0	0	0	0	6	584
290030	22	3484	0	0	0	0	0	0	4	1586
290050	202	19360	0	0	0	0	10	1167	13	2299
310080	14	827	0	0	0	0	0	0	0	0
390050	125	2509	0	0	0	0	0	0	0	0
400060	11	1095	0	0	0	0	0	0	0	0
400080	32	2240	0	0	0	0	0	0	26	1112
900060	20	1558	0	0	0	0	0	0	0	0
900080	492	16268	13	109	0	0	20	2109	7	53
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	71	2274	0	0	0	0	0	0	0	0
200090	22	3795	0	0	37	230	0	0	0	0
300060	9	1937	0	0	0	0	0	0	0	0
300080	10	901	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	2	85	0	0	0	0	0	0
401040	5	1054	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	13	2337	7	40	0	0	0	0	0	0
500050	28	2857	0	0	0	0	0	0	0	0
500090	229	8411	11	427	0	0	24	227	10	152
9000000001	55	7589	2	21	0	0	2	14	4	157
9800000001	2642	10753	801	93	6	20	16	432	122	646
9900000001	56614	8695	14277	1575	207	35	46	15	2721	2637
Y-T-D Tot	67254	852567	15463	18129	1165	18677	2109	25535	3152	16733
MC YTD Tot	6008	720889	136	9553	170	9140	95	2825	18	5753

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	171	12849	48	433	0	0	0	0	50	1900
301050	79	5120	14	281	31	1439	6	643	30	1181
301070	83	5011	147	1675	19	645	11	478	71	1472
8457100015	2	650	85	6061	416	24760	45	6158	104	4125
100025	0	0	38	3913	3	1394	2	2794	2	53
100035	1	1449	21	2689	11	395	76	13240	1	2022
100045	5	1676	14	912	8	899	86	49105	50	1947
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	526	0	0	1	89	4	1506	0	0
300090	23	3855	0	0	0	0	36	21580	0	0
8458110010	1	859	3	130	6	844	40	10286	2	75
110030	9	1121	119	6655	79	4142	3	265	132	3868
110050	3	697	19	1004	7	1066	8	1554	13	1967
110090	0	0	1	50	1	104	15	5662	5	1458
190030	5	19	933	7233	412	6071	6	3590	1701	14171
190050	31	3877	332	2555	12	884	305	4945	165	1226
190070	33	6368	70	520	0	0	7	3948	13	350
190090	8	822	223	1720	139	2544	46	1320	442	1966
911060	5	463	0	0	0	0	1	622	2	120
911080	5	582	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	488	1	70	1	30	3	489	17	1158
991050	12	2591	14	48	9	25	2	539	29	205
995090	7	878	22	417	90	2102	37	2325	495	3029
8459100000	0	0	0	0	5	507	0	0	0	0
210080	3	117	0	0	4	791	32	2533	7	37
290040	7	630	25	71	0	0	8	47	4	153
290050	0	0	137	818	0	0	3	21	216	1315
290070	0	0	6	49	0	0	18	334	2	15
290090	8	307	2	25	3	16	19	1172	69	411
310010	0	0	3	464	1	840	0	0	2	142
310040	2	1202	2	3	4	1679	32	7405	36	1222
310070	2	61	2	12	4	1281	18	1027	5	559
390040	2	78	1	19	0	0	5	455	14	527
390050	0	0	17	144	1	693	30	3650	18	447
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	12	53	3	14	3	274	3	103
400070	0	0	0	0	0	0	0	0	0	0
400080	4	1611	1	7	4	174	50	568	7	133
510080	12	239	256	2544	105	3871	21	791	46	512
590030	5	298	1134	6091	86	672	40	1081	521	2389
610080	5	151	127	2293	14	750	183	4390	93	830
690050	0	0	5	24	0	0	1	4	25	262
690070	0	0	26	609	0	0	4	1636	3	41
690090	11	1666	374	1919	12	900	46	3237	271	1957
700020	0	0	0	0	0	0	3	389	0	0
700080	36	197	1	4	6	357	41	1683	4	67
8460110080	6	834	27	305	20	2268	26	4405	2	24
190010	0	0	390	2262	1	4	125	1468	11	54
190050	30	1618	1521	10045	79	3050	50	1729	147	1033
210080	38	6436	1	57	25	8241	175	24783	3	172
290010	73	7575	21	449	40	1045	67	3637	60	533
290030	24	2512	1	5	3	68	66	3219	122	964
290050	67	1970	139	896	88	1412	442	14797	65	1437
310080	21	192	34	202	9	553	106	3309	44	1172
390050	74	1204	149	750	208	1321	146	2659	35	552
400060	0	0	2	11	5	216	15	3104	0	0
400080	3	399	2	20	76	843	39	3876	37	471
900060	1	4	0	0	0	0	9	1667	14	326
900080	45	1925	54	396	116	645	298	11134	218	2084
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	3	578	9	393
200090	46	640	2	8	4	301	13	2155	2	6
300060	0	0	0	0	4	9597	0	0	0	0
300080	0	0	0	0	40	2745	27	3558	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	3	160	0	0	5	56	84	8604	10	102
401040	0	0	0	0	0	0	30	12519	3	71
401060	80	9	0	0	25	134	61	69	2	22
405050	1	467	0	0	0	0	18	1694	1	240
405070	19	8304	0	0	8	832	46	15334	23	1873
500050	0	0	12	210	0	0	54	2756	2	109
500090	18	385	177	927	115	729	364	12319	384	2794
9000000001	23	2498	8	53	9	261	41	2788	106	2510
9800000001	108	1460	1602	472	1000	9457	742	6014	155	871
9900000001	939	312	711516	57498	1962	1237	8983	3001	110521	9182
Y-T-D Tot	2218	95371	719896	126216	5339	104993	13329	313040	116648	80476
NC YTD Tot	387	35865	832	28432	760	65312	967	149542	672	25433

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	376	28298
8462100030	Headers and upsetters, including cold headers	161	15377
100050	Forging or die stamping machines, and hammers, n.e.c.	827	49098
210080	Bending, folding, straight. or flat. mach., incl presses, NC	530	38505
290030	Press brakes, non-NC	313	9221
290040	Bending rolls, non-NC	93	2974
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1233	43272
310080	Shearing machines, NC	55	5214
390050	Shearing machines, non-NC	588	16530
410080	Punching or notching mach., incl. comb. punch & shear, NC	318	38986
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	682	15755
910060	Hydraulic presses, NC	22	20256
910090	Hydraulic presses, non-NC	2458	20449
990030	Presses, n.e.c., NC	51	4820
990035	Mechanical transfer presses, non-NC	16	35884
990045	Mechanical presses, n.e.c., non-NC	185	5481
990060	Presses, n.e.c., non-NC	795	37117
8463100080	Draw benches for bars, tubes, profiles, wire or the like	159	9810
200080	Thread rolling machines	91	5690
300080	Machines for working wire	1397	71322
900080	Metal forming machine tools, n.e.c.	778	33316
9800000002	Used or rebuilt machine tools	1545	25307
9900000002	Machine tools valued at less than $2,500	20268	5766
	Y-T-D Forming Total	32941	538448
	NC Y-T-D Forming Total	976	107781
	Cutting and Forming Totals:		
	Y-T-D Total	1019454	2305083
	NC Y-T-D Total	11301	1194427

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	564515
2000000000	Parts for working rubber or plastics - heading 8477	0	328098
2710003070	Quenching or cutting oils	0	339
8428900010	Industrial robots for lifting, handling, loading or unload	2113	37810
8431390080	Parts industrial robots, handling and loading - heading 8428	0	100220
8456101010	Laser, light or photon beam for working metal, NC	167	30702
101020	Laser, light or photon beam for working metal, non-NC	78	4408
105000	Laser, light or photon beam for other materials	563	9066
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158
205000	Ultrasonic processes for working other materials	329	256
8477103000	Injection molding mach., for manufacturing shoes	147	3389
106010	Injection molding mach., for rubber or oth. thermosetting	839	69739
106050	Injection molding mach., for thermoplastics	2482	223604
200010	Extruders for rubber or other thermosetting materials	217	16326
200050	Extruders for processing thermoplastics	973	62728
300000	Blow molding machines	339	52191
400000	Vacuum-molding and other thermoforming machines	292	9921
510010	Machines for molding or retreading pneumatic tires	653	57022
510090	Machines for molding or otherwise forming inner tubes	271	14450
590000	Machines for molding or otherwise forming n.e.c.	1034	50598
800000	Machines for working rubber or plastics n.e.c.	15508	121293
8479899040	Industrial robots, n.e.c.	14363	83416
908040	Industrial robot parts	0	36999
8537100030	Numerical controls for controlling machine tools	15054	45547
9024100000	Machines and appliances for testing metals	0	13077
9031100000	Machines for balancing mechanical parts	0	13536
300000	Profile projectors	0	6660
9032810020	Industrial process control instr., hydraulic	155225	2424
810060	Industrial process control instr., pneumatic	225634	4803

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine tool totals and Other Manufacturing Technology
January 90 - December 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	117	6189	0	0	23	1488
8462100030	1	1273	0	0	2	124	1	12	27	2871
100050	0	0	0	0	160	4257	95	96	21	1296
210080	5	1236	0	0	57	7309	3	55	38	1725
290030	60	1922	0	0	187	6089	0	0	0	0
290040	0	0	0	0	11	101	1	367	23	537
290050	6	31	0	0	348	7788	74	1480	115	2532
310080	31	964	0	0	1	9	0	0	2	901
390050	105	2011	0	0	83	2544	2	95	29	580
410080	1	1068	0	0	2	13	2	366	2	71
490050	1	60	1	3	28	1558	1	20	70	733
910060	3	190	0	0	0	0	0	0	0	0
910090	21	53	0	0	67	5304	4	6	58	391
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	1	107	3	61
990060	4	1418	0	0	284	12987	13	50	80	1605
8463100080	6	269	0	0	10	1028	0	0	7	94
200080	0	0	0	0	4	67	0	0	2	700
300080	156	8466	0	0	74	4210	16	327	140	16134
900080	0	0	0	0	65	4080	32	409	93	3236
9800000002	82	1789	11	200	613	4582	31	189	67	4053
9900000002	50	6	2	2	144	142	61	87	1061	317
Y-T-D Tot	547	20764	14	205	2259	68393	337	3667	1890	39547
NC YTD Tot	40	3458	0	0	60	7330	5	421	71	2919
C&F Y-T-D	742	22450	2079	12909	3949	89915	2313	27638	35904	94563
C&F NC YTD	44	3580	7	573	110	12603	88	9756	207	21518

Other Manufacturing Technology

1000000000	0	6103	0	771	0	69370	0	9680	0	20699
2000000000	0	2986	0	52	0	62952	0	34692	0	15141
2710003070	0	7	0	0	0	213	0	0	0	0
8428900010	4	213	0	0	278	2704	8	385	13	2299
8431390080	0	241	0	393	0	16591	0	1110	0	1409
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	24	705	2	34	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	40	2309
106010	0	0	0	0	38	4594	59	7589	30	1566
106050	1	36	0	0	401	45741	19	1717	99	12400
200010	3	16	0	0	13	188	5	891	16	409
200050	4	732	0	0	101	5396	1	70	49	7880
300000	0	0	0	0	30	937	30	19618	18	3397
400000	0	0	0	0	8	157	4	250	9	329
510010	6	52	0	0	125	8664	36	2051	94	2377
510090	0	0	60	13	14	1399	4	35	19	40
590000	1	792	0	0	93	6135	61	894	51	3268
800000	446	1212	0	0	504	5682	352	5182	183	5713
8479899040	13	273	0	0	674	1813	69	775	6	419
908040	0	110	0	0	0	1154	0	318	0	629
8537100030	0	0	0	0	43	179	1	2	4211	416
9024100000	0	51	0	0	0	1343	0	42	0	521
9031100000	0	7	0	1	0	53	0	72	0	197
300000	0	0	0	0	0	10	0	0	0	9
9032810020	24	72	0	0	24	115	0	0	42	1
810060	2	1	0	0	126	54	100	7	2156	208

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

January 90 - December 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	143	14772	2	127	1	251	0	0	0	0
8462100030	92	8953	0	0	0	0	0	0	0	0
100050	230	28118	14	470	5	9	1	6	21	310
210080	281	13634	0	0	1	5	1	26	5	7322
290030	15	412	0	0	8	175	0	0	0	0
290040	5	168	0	0	0	0	0	0	12	733
290050	140	9508	0	0	0	0	2	7	111	3101
310080	12	2083	0	0	0	0	1	292	0	0
390050	117	7804	1	30	2	34	0	0	15	287
410080	101	13292	0	0	0	0	0	0	6	2760
490050	100	6779	0	0	0	0	185	2120	9	171
910060	6	2254	0	0	0	0	0	0	5	15406
910090	225	6460	0	0	0	0	1	14	24	592
990030	14	3451	0	0	0	0	0	0	0	0
990035	8	35327	0	0	0	0	0	0	0	0
990045	45	3285	0	0	0	0	0	0	0	0
990060	111	8001	2	108	0	0	5	15	40	469
8463100080	51	6555	0	0	0	0	0	0	0	0
200080	55	3908	0	0	0	0	16	776	0	0
300080	668	27117	0	0	0	0	0	0	9	99
900080	182	7876	0	0	0	0	12	802	8	540
9800000002	100	5282	0	0	0	0	28	27	18	957
9900000002	1746	898	10	9	71	12	274	269	340	192
Y-T-D Tot	4447	215936	29	744	88	486	526	4355	623	32939
NC YTD Tot	414	34713	0	0	1	5	2	318	16	25487
C&F Y-T-D	71701	1068504	15492	18873	1253	19163	2635	29890	3775	49672
C&F NC YTD	6422	755602	136	9553	171	9145	97	3142	34	31241

Other Manufacturing Technology

1000000000	0	159263	0	1348	0	6384	0	3380	0	15127
2000000000	0	51593	0	1111	0	976	0	723	0	1442
2710003070	0	44	0	0	0	0	0	0	0	0
8428900010	924	17385	0	0	0	0	0	0	134	5235
8431390080	0	19696	0	293	0	29	0	87	0	1003
8456101010	135	27327	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	2	10
105000	3	4592	0	0	0	0	0	0	407	36
201010	0	0	0	0	0	0	0	0	0	0
201050	7	88	0	0	0	0	0	0	3	10
205000	3	141	0	0	270	27	0	0	1	2
8477103000	0	0	0	0	0	0	26	10	0	0
106010	444	39539	10	679	4	243	0	0	3	91
106050	812	89750	43	1776	21	396	0	0	1	15
200010	71	7219	2	30	0	0	1	124	0	0
200050	64	7986	6	291	0	0	0	0	27	1354
300000	78	9819	42	234	0	0	2	281	0	0
400000	21	3717	0	0	0	0	0	0	0	0
510010	268	24849	0	0	0	0	1	13	0	0
510090	33	8004	5	114	0	0	0	0	2	4
590000	329	28048	4	73	1	30	0	0	2	140
800000	4729	40104	1900	238	4	606	15	351	32	258
8479899040	12697	59754	62	57	2	83	7	249	125	5824
908040	0	14488	0	0	0	11	0	2	0	961
8537100030	10185	44023	0	0	0	0	0	0	6	3
9024100000	0	3302	0	0	0	0	0	0	0	658
9031100000	0	11204	0	20	0	4	0	10	0	23
300000	0	2503	0	0	0	0	0	0	0	0
9032810020	167	94	18550	85	0	0	0	0	1	8
810060	1756	114	115000	207	0	0	0	0	10930	1773

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	2457	3	216	6	130	14	2465	41	197
8462100030	0	0	1	4	0	0	37	2140	0	0
100050	19	3507	11	153	82	1974	81	6075	87	2828
210080	7	581	5	110	24	760	80	4017	23	1727
290030	0	0	4	32	0	0	1	4	38	587
290040	1	5	27	235	3	62	1	580	9	185
290050	25	1721	55	540	35	4169	164	10001	158	2394
310080	3	214	1	20	1	15	1	703	2	14
390050	1	181	8	96	114	1219	52	786	59	864
410080	17	3947	2	189	2	104	166	13832	17	3345
490050	19	754	28	175	82	1357	135	1634	23	390
910060	0	0	1	650	0	0	4	1638	3	118
910090	18	1054	1187	1038	12	1339	63	3701	778	497
990030	2	149	0	0	0	0	4	969	2	29
990035	1	100	0	0	1	318	6	139	0	0
990045	62	650	0	0	53	1114	16	183	3	68
990060	8	909	73	2174	86	2044	55	6668	34	670
8463100080	1	3	0	0	0	0	84	1860	0	0
200080	2	64	11	155	0	0	0	0	1	19
300080	38	4536	35	870	73	1292	168	7876	20	393
900080	148	3955	9	167	58	562	144	10640	27	1048
9800000002	170	933	37	124	189	1612	126	4765	73	794
9900000002	1429	207	5931	1969	184	114	1345	347	7620	1194
Y-T-D Tot	1982	25925	7429	8915	1005	18186	2747	81025	9018	17362
NC YTD Tot	29	4891	9	968	27	878	255	21159	47	5233
C&F Y-T-D	4200	121296	727325	135130	6344	123178	16076	394064	125666	97838
C&F NC YTD	416	40756	841	29400	787	66190	1222	170701	719	30667

Other Manufacturing Technology

1000000000	0	39117	0	17442	0	44889	0	135744	0	35198
2000000000	0	7687	0	11103	0	8653	0	109016	0	19971
2710003070	0	1	0	0	0	0	0	74	0	0
8428900010	60	1543	0	0	100	2428	552	2301	40	3319
8431390080	0	13713	0	2088	0	14068	0	16408	0	13091
8456101010	10	565	0	0	7	900	9	1206	6	704
101020	0	0	0	0	6	388	66	3315	2	146
105000	10	1270	0	0	29	1057	33	31	54	1336
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	1	7	1	36	0	0
205000	0	0	0	0	1	38	2	32	51	9
8477103000	2	467	13	356	11	16	52	115	2	2
106010	31	4430	60	2738	4	38	78	4444	78	3787
106050	63	6990	119	4527	44	1167	620	42824	239	16266
200010	20	1147	20	330	8	364	45	5294	13	313
200050	7	2164	68	2517	114	2377	505	30623	27	1337
300000	0	0	37	1253	6	60	82	15537	14	1055
400000	0	0	3	28	65	240	177	5091	5	110
510010	0	0	0	0	27	629	59	14842	37	3547
510090	3	262	4	23	21	773	96	2809	10	974
590000	143	418	31	265	72	621	122	6500	124	3412
800000	383	5669	3218	2449	179	1815	3104	44939	459	7078
8479899040	13	1558	0	0	32	2828	189	6324	474	3460
908040	0	1560	0	143	0	3686	0	12702	0	1236
8537100030	19	111	75	79	14	90	295	525	205	118
9024100000	0	411	0	39	0	2587	0	2980	0	1143
9031100000	0	85	0	3	0	202	0	533	0	1120
300000	0	489	0	0	0	2565	0	653	0	431
9032810020	3940	173	0	0	12532	68	200	135	119745	1673
810060	1	2	73473	316	1874	81	14961	1044	5255	996

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Tot...
January 90 December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1948	14116	14	718	1962	14833
Bulgaria	3	9	0	0	3	9
Czechoslovakia	101	1527	1	85	102	1613
Denmark	522	2527	148	987	670	3514
East Germany	689	2323	150	4	839	2327
Finland	52	424	69	3803	121	4227
Hungary	22	1138	0	0	22	1138
Ireland	44	100	2	14	46	114
Luxembourg	0	0	1	3	1	3
Netherlands	568	5477	455	1136	1023	6613
Norway	2	14	3	185	5	198
Poland	404	5814	0	0	404	5814
Portugal	228	759	76	1209	304	1968
Romania	2	32	0	0	2	32
USSR	23	462	1	9	24	472
Yugoslavia	806	7213	37	2597	843	9809
Oth Europe	72	2173	17	232	89	2405
TOTAL	67818	680451	10631	237391	78449	917841
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	481	863	523	1208	1004	2071
Oth N & C Am.	0	0	1	2	1	2
TOTAL	2298	22441	2784	69608	5082	92049
SOUTH AMERICA						
Argentina	26	220	5	23	31	244
Chile	0	0	0	0	0	0
Colombia	2	18	1	3	3	20
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	1	2	4	328
Oth South Am.	0	0	0	0	0	0
TOTAL	2097	13269	21	233	2118	13502
OCEANIA						
Australia	176	2360	24	1034	200	3395
New Zealand	3	14	164	1594	167	1609
Oth Oceania	0	0	0	0	0	0
TOTAL	179	2375	188	2629	367	5004

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	106883	22406	6834	871	113717	23278
Hong Kong	2900	640	33	328	2933	969
India	196	1617	162	45	358	1662
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	218	3973	77	485	295	4458
Malaysia	35	5	53	348	88	353
Pakistan	0	0	0	0	0	0
Philippines	4	15	2	55	6	69
Thailand	94	3715	0	0	94	3715
Oth Asia	1	68	10	99	11	167
TOTAL	914110	1048029	19164	228313	933274	1276342
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	153	275	158	334
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	153	275	164	345

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.